FILE COPY
00453

# 1988 ANNUAL REPORT OF HAZARDOUS WASTE ACTIVITIES FOR THE OAK RIDGE GASEOUS DIFFUSION PLANT

A. G. Hodgson

March 1989



Oak Ridge Gaseous Diffusion Plant
Oak Ridge, Tennessee 37831
Operated by
MARTIN MARIETTA ENERGY SYSTEMS, INC.
for the
U.S. DEPARTMENT OF ENERGY
Under Contract No. DEAC05-84-OR21400

ChemRisk Repository Number: 232 Document Number: 00453
Title: 1988 Annual Report of Hazardous Waste Activities for the Oak Ridge Gaseous Diffusion Plant
Authors: A. G. Hodgson
Abstract: This document is a collection of hazardous waste steam reports for 1988. It documents the quantities handled and the years the waste has been handled at K-25. Excellent overview of wastes generated at K-25.
Reviewer: J. Lamb
Document Source or Location: K-25 SRCDC
Date Document Issued: 03/00/89
Classification Category: unc

Primary Document Category: hw

Date Entered: 11/16/92
Entered By: cmv
Keywords: Waste disposal, Waste generation

**United States Department of Energy, K-25 Site**

**Hazardous Waste Notification**

# Hazardous Waste Notification Summary

JAN 06, 1

See full instructions for Form PH-2019A for additional information and codes.

1. Organization's name
UNITED STATES DEPT OF ENERGY K-25 SITE

| EPA ID CODE
TN0 89-009-0004

2. Mailing address
PO BOX 2003

| City
OAK RIDGE

| State | Zip
TN 37831

3. Physical location or address
Tennessee State Route 58 at Blair Road

| County name
ROANE

Latitude | Longitude
35° 55' 00" 84° 25' 00"

4. Owner name
UNITED STATES DEPT OF ENERGY

| Phone
(615) 576-084

5. MANAGER OR operator name
UNITED STATES DEPT OF ENERGY

| Phone
(615) 576-084

6. Principal technical contact
M C SMITH

| Phone
(615) 576-097

| 7. Number of employees | Year began | SIC codes | Job shop |
|---|---|---|---|
| 2,500 | 1943 | 2819, , , | NO |

8. Emergency contacts

| Name | Time period covered | Phone |
|---|---|---|
| A DOE SECURITY OPERATIONS CENTER | 24 HOURS | (615)576-1004 |
| B K-25 PLANT SHIFT SUPERINTENDENT | 24 HOURS | (615)574-3282 |

9. Current environmental permits for air, water, and radiological permits. Give permit type, number and expiration date. In a range of related permits summarize by giving the first and last permit number.
SEE ATTACHMENT #1

10. I certify that this information is true, accurate and complete.
Signature of authorized representative, title, date

==========

Below is for Department use only.

| 11. Date rcvd | County | Priority | Generator Yes | Generator No | Small Gen. Yes | Small Gen. No | Special status |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

| 12. Date closed | Date regulated | Date deregulated | Insp. Freq. |
|---|---|---|---|
| /00/00 | 1/01/84 | /00/00 | A |

13. Comments

ATTACHMENT 1

United Sates Department of Energy, K-25 Site
EPA ID Code: TN089-009-0004

AIR

012469P
012478P
012483P
012488P
012503P-012506P
012508P
012659P-012661P

012732P
014063P
015097P
015098P
015099P-015101P
015105P
015596P
015690P
015702P-015704P

015830P
015937P
016306P
016309P-016313P
016492P
016744P
017051P
017053P
017055P

017336P-017339P
017846P
018525P-018527P
019608P-019609P
020514P
020515F
020516I
020691P
020692P
020721P

020925P
021016P
021139P
021198P
021251P-021253P
021563P
022111P

022893P
023001P
023118P-023120P
023662P-023663P
023762P
023794P
023796P-023798P
024105P
024270P-024272P

024297P
024299P
024301P-024305P
024335P
024369P
024453P-024455P
024498P
024500P
024502P-024503P

024614P
024756P & 024758P
024910P
024943P
024947P
025120P
025243P
025443P
025250P
025490P-025493P

ATTACHMENT 1 (Cont.)

United States Department of Energy, K-25 Site
EPA ID Code: TN089-009-0004

| | | |
|---|---|---|
| AIR | 025494P-025495P | 025843 |
| | 025514P | 026164P |
| | 025585P | 026548P |
| | 025655P-025658P | 026676P |

Attachment 1 (Cont.)

United Sates Department of Energy, K-25 Site
EPA ID Code: TN089-009-0004

| | |
|---|---|
| WATER | TN0002950 |
| RADIOLOGICAL | None |
| SOLID WASTE | TN089-009-0004 |

**United States Department of Energy, K-25 Site.**

**Waste Stream Report**

Hazardous Waste Stream Report - Front JAN 06, 1

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-000

2. Waste name.
K-1420 HC1, MI STRIPPER | Waste stream 4

3. Give years waste generated | Date stopped | Frequency of generation
1944 /00/00 VARIOUS

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| BC | D002D007 | 2819

5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb.
LIQUID, WATER BASED | .0 | | 10.000 | .0 | .0

6. Generation rates in kilograms.
Monthly maximum | Annual average | Max. amount stored | Max. days stor
4,284 14,045 4,284 365

7. DOT shipping name | DOT hazard class | DOT ID cod
# CORROSIVE #

8. Describe generation process.
USED TO PREPARE PARTS FOR NICKEL PLATING. WASTE GENERATED DURING ELECTROLESS PLATING OPERATIONS. THIS IS A MIXED WASTE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(
g. Other - explain below: . . . . . g( )

No Longer Generated

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (kg)

Hazardous Waste Stream Report - Back JAN 06, 1

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF EMERGY K-25 SITE | EPA ID CODE TN0 89-009-000

Waste name.
K-1420 HC1, NI STRIPPER | Waste stream 4

12. Chemical Characteristics. | Concentration units. For EP toxic wastes, indicate PPM.
pH | Flash point | Reactive code |
<2.5
Major and hazardous consituents.

| | lower | upper |
|---|---|---|
| A HYDROCHLORIC ACID | 20VOL | 25VOL |
| B WATER | 75VOL | 80VOL |
| C CHROMIUM | 57PPM | |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

Below is for department use only.

| 17. Date rcvd | Complete? Yes | Complete? No | Test results? Yes | Test results? No | Reasonable? Yes | Reasonable? No | Follow-up Yes | Follow-up No | Initials |
|---|---|---|---|---|---|---|---|---|---|

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Repor |
|---|---|
| R | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 1

See full instructions for form FH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-000

2. Waste name.
K-1420 NITRIC ACID | Waste stream 6

3. Give years waste generated | Date stopped | Frequency of generation
1944 /00/00 VARIOUS

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| BC | D002D008 | 2819

5.

| Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| LIQUID, WATER BASED | .0 | | 12.000 | .0 | .0 |

6. Generation rates in kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days stor |
|---|---|---|---|
| 1,364 | 1,364 | 1,364 | 365 |

7.

| DOT shipping name | DOT hazard class | DOT ID cod |
|---|---|---|
| NOT TRANSPORTED OFF-SITE.# | O R M - E | # |

8. Describe generation process.
WASTE GENERATED FROM ELECTROLESS PLATING OPERATIONS. THIS IS A MIXED WASTE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d
e. Improved operations. . . . e
f. No effort. . . . . f

g. Other - explain below: . . . . . g( ) None Generated in 1988

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (kg)

Hazardous Waste Stream Report - Back JAN 06, 1

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-000

Waste name.
K-1420 NITRIC ACID | Waste stream 5

12. Chemical Characteristics. | Concentration units. For EP toxic wastes, indicate PPM.

| pH | Flash point | Reactive code |
|---|---|---|
| <2.5 | | |

% VOLUME

Major and hazardous consituents.

| | lower | upper |
|---|---|---|
| A NITRIC ACID | 50 | 55 |
| B WATER | 45 | 50 |
| C LEAD | 6.1PP | 6.1 |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

Below is for department use only.

| 17. Date rcvd | Complete? Yes | Complete? No | Test results? Yes | Test results? No | Reasonable? Yes | Reasonable? No | Follow-up Yes | Follow-up No | Initials |
|---|---|---|---|---|---|---|---|---|---|

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Repor- |
|---|---|
| R | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 1

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-000

2. Waste name.
ELECTROLESS NICKEL SOLUTION | Waste stream 8

3. Give years waste generated | Date stopped | Frequency of generation
1944- /00/00 VARIOUS

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f)
CODES| BC |D002D007 | 2819

5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb.
LIQUID, WATER BASED | .0 | | 11.000 | .0 | .0

6. Generation rates in Kilograms.
Monthly maximum | Annual average | Max. amount stored | Max. days stor
12,159 12,159 12,159 15

7. DOT shipping name | DOT hazard class | DOT ID cod
# O R M - E #

8. Describe generation process.
USED TO NICKEL PLATE PARTS. THIS WAS A MIXED WASTE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A. | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(
g. Other - explain below: . . . . . g( )

None Generated in 1988

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (kg)

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE
TN0 89-009-000

Waste name.
ELECTROLESS NICKEL SOLUTION | Waste stream
8

12. Chemical Characteristics. | Concentration units. For EP toxic wastes, indicate PPM.
% VOLUME

| pH | Flash point | Reactive code |
|---|---|---|
| <2 | | |

Major and hazardous consituents.

| | lower | upper |
|---|---|---|
| A NITRIC ACID | 53 | 53 |
| B WATER | 47 | 47 |
| C CHROMIUM | | 5.1 |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========

Below is for department use only.

| 17. Date rcvd | Complete? Yes | Complete? No | Test results? Yes | Test results? No | Reasonable? Yes | Reasonable? No | Follow-up Yes | Follow-up No | Initials |
|---|---|---|---|---|---|---|---|---|---|

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Repor- |
|---|---|
| R | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 1

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 39-009-000

2. Waste name.
NITRIC ACID BATH | Waste stream 9

3. Give years waste generated | Date stopped | Frequency of generation
1954-1985 | 12/31/85 | CONTINUOUS

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| C | D002 | 2819

| 5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| LIQUID, WATER BASED | .0 | | 11.000 | .0 | .0 |

6. Generation rates in Kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days stor |
|---|---|---|---|
| 60 | 60 | | |

7. DOT shipping name | DOT hazard class | DOT ID cod

8. Describe generation process.
CLASSIFIED SEAL SHOP OPERATION. THIS IS A MIXED WASTE. CLEANING OF PROCESS EQUIPMENT. THIS IS A MIXED WASTE.

** ANNUAL REPORT SECTION ** LINES 9-11

| 9. Report Year | Amount generated during year (Kg) | Amount on site on first day (Kg) | Amount on site on last day (Kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d
e. Improved operations. . . . e
f. No effort. . . . . f

g. Other - explain below: . . . . . g( )

No Longer Generated

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (Kg.

Hazardous Waste Stream Report - Back JAN 06, 1

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-000

Waste name.
NITRIC ACID BATH | Waste stream 9

12. Chemical Characteristics. | Concentration units. For EP toxic wastes, indicate PPM.

| pH | Flash point | Reactive code | |
|---|---|---|---|
| <2 | | | % VOLUME |

| Major and hazardous consituents. | lower | upper |
|---|---|---|
| A NITRIC ACID | 25 | |
| B PHOSPHORIC ACID | 50 | |
| C WATER | 25 | |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========

Below is for department use only.

| 17. Date rcvd | Complete? Yes | Complete? No | Test results? Yes | Test results? No | Reasonable? Yes | Reasonable? No | Follow-up Yes | Follow-up No | Initials |
|---|---|---|---|---|---|---|---|---|---|

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Repor |
|---|---|
| R | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 19

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 39-009-0001

2. Waste name.
K-1401 HYDROCHLORIC ACID | Waste stream I 10

3. Give years waste generated | Date stopped | Frequency of generation
1944- /00/00 VARIOUS

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES | B,C | D002D007 | 2819

5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb.
LIQUID, WATER BASED | .0 | | 10.000 | .0 | .0

6. Generation rates in Kilograms.
Monthly maximum | Annual average | Max. amount stored | Max. days store
31,000 | 259,090 | 31,000 | 15

7. DOT shipping name | DOT hazard class | DOT ID code
NOT TRANSPORTED OFF-SITE.# | CORROSIVE | #

8. Describe generation process.
METAL CLEANING PROCESS. WASTE GENERATED DURING METALS CLEANING OPERATION. THIS IS A MIXED WASTE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 32068 kg | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 32068 kg | (Y) N | T-31, T-44, D-84 NPDES Effluen |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(

g. Other - explain below: . . . . . g(X) Neutralized

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b(X) c. No change-c( ). | Amt of Reduction (kg)
32068

Hazardous Waste Stream Report - Back JAN 06, 19

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

Waste name.
K-1401 HYDROCHLORIC ACID | Waste stream 10

12. Chemical Characteristics. | Concentration units. For EP toxic wastes, indicate PPM.

| pH | Flash point | Reactive code |
|---|---|---|
| <2.5 | | |

Major and hazardous consituents.

| | | lower | upper |
|---|---|---|---|
| A | HYDROCHLORIC ACID | 26VOL | 38VOL |
| B | IODINE | 40VOL | 50VOL |
| C | WATER | 20VOL | 25VOL |
| D | FORMALDEHYDE | 6VOL | 10VOL |
| E | CHROMIUM | 10PPM | 20PPM |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========

Below is for department use only.

| 17. Date rcvd | Complete? Yes | Complete? No | Test results? Yes | Test results? No | Reasonable? Yes | Reasonable? No | Follow-up Yes | Follow-up No | Initials |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| R | Y |

18. Comments.

Analytical testing is preformed to determine when waste stream has been Neutralized

Hazardous Waste Stream Report - Front JAN 06, 198

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

2. Waste name.
K-1401 ALKALI | Waste stream ID 11

3. Give years waste generated | Date stopped | Frequency of generation
1944- /00/00 VARICUS

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| B,C |D002D007D008 | 2819

5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb.
LIQUID, WATER BASED | .0 | | 10.000 | .0 | .0

6. Generation rates in kilograms.
Monthly maximum | Annual average | Max. amount stored | Max. days stored
19,000 | 140,454 | 19,000 | 15

7. DOT shipping name | DOT hazard class | DOT ID code
NOT TRANSPORTED OFF-SITE.# | CORROSIVE | #

8. Describe generation process.
METAL CLEANING PROCESS. WASTE GENERATED DURING METALS CLEANING OPERATION. THIS IS A MIXED WASTE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 40464 kg | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 40464 kg | (Y) N | T-31, T-44, D-84 NPDES Effluent |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d( )
e. Improved operations. . . . e( )
f. No effort. . . . . f( )
g. Other - explain below: . . . . . g(X) Neutralized

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b(X) c. No change-c( ). | Amt of Reduction
40464 (kg)

Hazardous Waste Stream Report - Back JAN 06, 198

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

Waste name.
K-1401 ALKALI | Waste stream ID 11

12. Chemical Characteristics. | Concentration units. For EP toxic wastes, indicate PPM.
pH | Flash point | Reactive code |

Major and hazardous consituents.

| | lower | upper |
|---|---|---|
| A SODIUM HYDROXIDE | 30V | 40V |
| B WATER | 60V | 70V |
| C CHROMIUM | 4 | 6 |
| D LEAD | 60 | 70 |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE | (Generator or authorized representative), title and date.

Below is for department use only.

| 17. Date rcvd | Complete? Yes | Complete? No | Test results? Yes | Test results? No | Reasonable? Yes | Reasonable? No | Follow-up Yes | Follow-up No | Initials |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

Status | Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| R | Y |

18. Comments.

Analytical testing is preformed to determine when the waste stream is Neutralized

Hazardous Waste Stream Report - Front JAN 06, 1

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-00C

2. Waste name.
K-1501 HYDROGEN SOFTENER BLOWDOWN | Waste stream 12

3. Give years waste generated | Date stopped | Frequency of generation
1944- /00/00 VARIOUS

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f)
CODES | C | D002 | 2819

5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb.
LIQUID, WATER BASED | .0 | | 8.000 | .0 | .0

6. Generation rates in kilograms.
Monthly maximum | Annual average | Max. amount stored | Max. days stor
~~1,510,000~~ 700,000 lbs | ~~18,109,091~~ 8,420,000 lbs

7. DOT shipping name | DOT hazard class | DOT ID cod
NOT TRANSPORTED OFF-SITE.# | CORROSIVE | #

8. Describe generation process.
WASTE GENERATED FROM A ZEOLITE BACKWASH SOLUTION FOR WATER SOFTENING AT THE STEAM PLANT. THIS IS A PURE WASTE.

** ANNUAL REPORT SECTION ** LINES 9-11

| 9. Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 8,420,000 lbs | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 8,420,000 lbs | (Y) N | T-31, D-84 NPDES Effluent |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d
e. Improved operations. . . . e
f. No effort. . . . . f

g. Other - explain below: . . . . . g(X)
Neutralized

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b(X) c. No change-c( ). | Amt of Reduction (Kg)
8,420,000

Hazardous Waste Stream Report - Back JAN 06, 1

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-000

Waste name.
K-1501 HYDROGEN SOFTENER BLOWDOWN | Waste stream 12

12. Chemical Characteristics. | Concentration units. For EP toxic wastes, indicate PPM.

| pH | Flash point | Reactive code | |
|---|---|---|---|
| 0.8 | | | % VOLUME |

Major and hazardous consituents.

| | lower | upper |
|---|---|---|
| A WATER | 98 | 99 |
| B SULFURIC ACID | 1 | 2 |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

Below is for department use only.

| 17. Date rcvd | Complete? Yes | Complete? No | Test results? Yes | Test results? No | Reasonable? Yes | Reasonable? No | Follow-up Yes | Follow-up No | Initials |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| 6 | Y |

18. Comments.

Analytical testing is preformed to determine when waste stream is neutralized

Hazardous Waste Stream Report - Front DEC 31, 1

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE | EPA ID CODE TN0 89-009-000

2. Waste name. Scrubber Sludge ~~from K-1401 B/C~~ ~~Pond Closure Project~~ | Waste stream 13

3. Give years waste generated | Date stopped | Frequency of generation
1944-1985 7/31/85 ~~Continuous until closure is finished~~

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| c f | D002/F006 | 2819

5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb.
SLUDGE, OTHER BASED | 000.0 | | 0010.000 | | |

6. Generation rates in kilograms.
Monthly maximum | Annual average | Max. amount stored | Max. days store

7. DOT shipping name | DOT hazard class | DOT ID code

8. Describe generation process.
BLOWDOWN FROM PURGE SCRUBBER. THIS IS A MIXED WASTE.

** ANNUAL REPORT SECTION ** LINES 9-11

| 9. Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 0 | ~~12,488,636 lbs~~ (0 lbs) AGH | ~~7,400,000 lbs~~ (0 lbs) AGH |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | ~~2,780,000 lbs~~ (0 lbs) AGH | ~~Y~~ N | ~~S 01~~ |
| B | ~~3,184,125 lbs~~ | ~~Y~~ N | ~~F21, T47 (stabilization) S01~~ |
| C | | ~~Y~~ N | |
| D | ~~7,400,000 lbs~~ | Y N | ~~S 01 (closure project)~~ |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( ) d. Substituting raw materials d(
b. In process recycling. . . . . b( ) e. Improved operations. . . . e(
c. Equipment/technology modification c( ) f. No effort. . . . . f(

g. Other - explain below: . . . . . g(X)
THIS WASTE IS NO LONGER GENERATED. CURRENT INVENTORY IS BEING REMOVED AND THE SURFACE IMPOUNDMENT IS BEING CLOSED.

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c(X). | Amt of Reduction (kg)

Hazardous Waste Stream Report - Back DEC 31, 1

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE | EPA ID CODE
TN0 89-009-000

Waste name.

* Waste stream :
13

12. Chemical Characteristics. | Concentration units. For EP toxic wastes, indicate PPM.
pH | Flash point | Reactive code | % VOLUME
>12.
Major and hazardous consituents.

| | lower | upper |
|---|---|---|
| A POTASSIUM HYDROXIDE | 5 | 10 |
| B URANIUM | TRACE | TRACE |
| C WATER | 90 | 95 |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE | (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========
Below is for department use only.

| 17. Date rcvd | Complete? Yes | No | Test results? Yes | No | Reasonable? Yes | No | Follow-up Yes | No | Initials |
|---|---|---|---|---|---|---|---|---|---|

Status | Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report Y | N |
|---|---|---|
| 8 | | |

18. Comments.

~~9A Raw Sludge removed and containerized not stabilized~~

~~9B Fixed or Stabilized Sludge includes stabilization materials~~

~~9C Raw Sludge to be removed~~

This waste stream NO longer generated.

Hazardous Waste Stream Report - Front JAN 06, 1

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-000

2. Waste name.
MUA/MUB ETCHANT | Waste stream 15

3. Give years waste generated | Date stopped | Frequency of generation
1973- /00/00 VARIOUS

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| B | D008 | 2819

5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb.
LIQUID, WATER BASED | 10.0 | | 9.000 | .0 | .0

6. Generation rates in kilograms.
Monthly maximum | Annual average | Max. amount stored | Max. days store
32 96 400 500

7. DOT shipping name | DOT hazard class | DOT ID code
WASTE CORROSIVE LIQUIDS, N.O.S. CORROSIVE 1760

8. Describe generation process.
PRINTED CIRCUIT BOARD MANUFACTURING PROCESS. THIS IS A PUREWASTE.

** ANNUAL REPORT SECTION ** LINES 9-11

9. Report Year 1988 | Amount generated during year (kg) O | Amount on site on first day (kg) O | Amount on site on last day (kg) O

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | O | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(
g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (kg)

Hazardous Waste Stream Report - Back JAN 06, 1

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-000

Waste name.
MUA/MUB ETCHANT | Waste stream 15

12. Chemical Characteristics. | Concentration units. For EP toxic wastes, indicate PPM.

| pH | Flash point | Reactive code |
|---|---|---|
| 8.7 | | |

Major and hazardous consituents.

| | lower | upper |
|---|---|---|
| A LEAD | 6.3 | 6.3 |
| B WATER | 90 | 90 |
| C SLUDGE | 10 | 10 |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========

Below is for department use only.

| 17. Date rcvd | Complete? Yes | No | Test results? Yes | No | Reasonable? Yes | No | Follow-up Yes | No | Initials |
|---|---|---|---|---|---|---|---|---|---|

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Repor |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 1

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-000

2. Waste name.
TINPOSIT | Waste stream 17

3. Give years waste generated | Date stopped | Frequency of generation
1973- /00/00 VARIOUS

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| BC |D002D007 | 2819

5. Physical form |% Solid|% Water|Lb./gal. | Chlorine PPM | BTU/lb.
LIQUID, WATER BASED | 50.0| | 12.000 | .0 | .0

6. Generation rates in Kilograms.
Monthly maximum | Annual average | Max. amount stored | Max. days store
15 60 600 700

7. DOT shipping name | DOT hazard class | DOT ID code
WASTE CORROSIVE LIQUIDS, N.O.S. CORROSIVE 1760

8. Describe generation process.
PRINTED CIRCUIT BOARD MANUFACTURING PROCESS. THIS IS A PUREWASTE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (Kg) | Amount on site on first day (Kg) | Amount on site on last day (Kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(

g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (kg)

Hazardous Waste Stream Report - Back JAN 06,

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID COD
TN0 89-009-00

Waste name.
TINPOSIT | Waste stream
17

12. Chemical Characteristics. | Concentration units. For EP toxic
pH | Flash point | Reactive code | wastes, indicate PPM.
<1.0

| lower | upper
Major and hazardous consituents.
A CHROMIUM 8.3 8.3
B WATER 50 50
C TINPOSIT 50 50

13. If this waste is recovered, reclaimed, recycled, or reused, describe hoı

16. I certify that this information is true, accurate and complete.
SIGNATURE | (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========
Below is for department use only.

| 17. Date rcvd | Complete? Yes | No | Test results? Yes | No | Reasonable? Yes | No | Follow-up Yes | No | Initials |
|---|---|---|---|---|---|---|---|---|---|

Status | Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Repor |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 19

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

2. Waste name.
SODIUM HYDROXIDE SOLUTION | Waste stream I: 18

3. Give years waste generated | Date stopped | Frequency of generation
1978- /00/00 VARIOUS

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| BC |D002D008 | 2819

5.

| Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| LIQUID, WATER BASED | .0 | | 12.000 | .0 | .0 |

6. Generation rates in kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days stored |
|---|---|---|---|
| 20 | 342 | 600 | 1,200 |

7.

| DOT shipping name | DOT hazard class | DOT ID code |
|---|---|---|
| WASTE SODIUM HYDROXIDE SOLUTION | CORROSIVE | 1824 |

8. Describe generation process.
PRINTED CIRCUIT BOARD MANUFACTURING PROCESS. THIS IS A PUREWASTE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 71 kg | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 71 kg | Y (N) | T-31 |
| B | 156 kg | Y (N) | T-31 |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(

g. Other - explain below: . . . . . g(X) Circuit Board Manufacturing process discontinued

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (kg)

Hazardous Waste Stream Report - Back JAN 06, 19

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

Waste name.
SODIUM HYDROXIDE SOLUTION | Waste stream I 18

12. Chemical Characteristics. | Concentration units. For EP toxic wastes, indicate PPM.
pH | Flash point | Reactive code |
13.3

Major and hazardous consituents.

| | lower | upper |
|---|---|---|
| A SODIUM HYDROXIDE | 5VOL | 10VOL |
| B WATER | 90VOL | 95VOL |
| C LEAD | 5.8 | 5.8 |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE | (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========

Below is for department use only.

| 17. Date rcvd | Complete? Yes | No | Test results? Yes | No | Reasonable? Yes | No | Follow-up Yes | No | Initials |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

Status | Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| 6 | Y |

18. Comments.

9A Generated in 1988 · 71 kg

9B Taken out of storage 156 kg

Total Disposed of off-site

Hazardous Waste Stream Report - Front JAN 06, 1

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-000

2. Waste name.
SODIUM METAL | Waste stream 20

| 3. Give years waste generated | Date stopped | Frequency of generation |
|---|---|---|
| 1983- | /00/00 | |

| 4. Mark all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) | EPA waste codes | SIC |
|---|---|---|
| CODES\| E | D003 | 2819 |

| 5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| OTHER SOLID | 100.0 | | .000 | .0 | .0 |

6. Generation rates in kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days stor: |
|---|---|---|---|
| 1 | 1 | 3 | 700 |

| 7. DOT shipping name | DOT hazard class | DOT ID cod: |
|---|---|---|
| WASTE, SODIUM, METAL | FLAMMABLE SOLID | 1428 |

8. Describe generation process.
MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.

** ANNUAL REPORT SECTION ** LINES 9-11

| 9. Report Year | Amount generated during year (Kg) | Amount on site on first day (Kg) | Amount on site on last day (Kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(

g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (kg)

Hazardous Waste Stream Report - Back JAN 06, 1

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-000

Waste name.
SODIUM METAL | Waste stream 20

12. Chemical Characteristics. | Concentration units. For EP toxic wastes, indicate PPM. % WEIGHT

| pH | Flash point | Reactive code |

Major and hazardous consituents.

| | lower | upper |
|---|---|---|
| A SODIUM METAL | 100 | 100 |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========

Below is for department use only.

| 17. Date rcvd | Complete? Yes | No | Test results? Yes | No | Reasonable? Yes | No | Follow-up Yes | No | Initials |
|---|---|---|---|---|---|---|---|---|---|

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 1

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-000

2. Waste name.
Y-12 RETURNED WASTE | Waste stream 21

3. Give years waste generated | Date stopped | Frequency of generation
1984- /00/00 CONTINUOUS

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| BF | F002D006D007 D008D009D002 | 2819

5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb.
LIQUID, WATER BASED | 5.0 | | 8.500 | .0 | .0

6. Generation rates in kilograms.
Monthly maximum | Annual average | Max. amount stored | Max. days stor
200,000 | 2,461,136 | 58,909 | 5

7. DOT shipping name | DOT hazard class | DOT ID cod
WASTE HAZARDOUS WASTE, LIQUIDS, N.O.S. | O R M - E | 9189

8. Describe generation process.
WASTE STREAM GENERATED FROM TREATMENT OF DOE Y-12 SITE WASTE. THIS IS A MIXED WASTE.

** ANNUAL REPORT SECTION ** LINES 9-11

9. Report Year 1988 | Amount generated during year (Kg) O | Amount on site on first day (Kg) O | Amount on site on last day (Kg) O

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | O | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(

g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (kg)

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 S9-009-000

Waste name.
Y-12 RETURNED WASTE | Waste stream 21

12. Chemical Characteristics. | Concentration units. For EP toxic wastes, indicate PPM.

| pH | Flash point | Reactive code |
|---|---|---|
| 6.0- | | |

Major and hazardous consituents.

| | lower | upper |
|---|---|---|
| A CHROMIUM | 0 | 9100 |
| B LEAD | 0 | 17 |
| C CADMIUM | 0 | 32 |
| D WATER | 90VOL | 95VOL |
| E MERCURY | 0 | 4 |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

Below is for department use only.

| 17. Date rcvd | Complete? Yes | No | Test results? Yes | No | Reasonable? Yes | No | Follow-up Yes | No | Initials |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Repor |
|---|---|
| R | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 1

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name. | EPA ID CODE
UNITED STATES DEPT OF ENERGY K-25 SITE | TN0 89-009-000

2. Waste name. | Waste stream
Y-12 BASES RETURNED | 22

| 3. Give years waste generated | Date stopped | Frequency of generation |
|---|---|---|
| 1984- | /00/00 | VARIOUS |

| 4. Mark all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) | EPA waste codes | SIC |
|---|---|---|
| CODES\| BCF | D002D007D009 F002 | 2819 |

| 5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| LIQUID, WATER BASED | 10.0 | | 8.400 | .0 | .0 |

6. Generation rates in kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days stor |
|---|---|---|---|
| 74,330 | 966,284 | | 10 |

| 7. DOT shipping name | DOT hazard class | DOT ID cod |
|---|---|---|
| WASTE ALKALINE, LIQUID, NOS | CORROSIVE | 1719 |

8. Describe generation process.
WASTE STREAM GENERATED FROM TREATMENT OF DOE Y-12 SITE WASTE THIS IS A MIXED WASTE.

** ANNUAL REPORT SECTION ** LINES 9-11

| 9. Report Year | Amount generated during year (Kg) | Amount on site on first day (Kg) | Amount on site on last day (Kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d
e. Improved operations. . . . e
f. No effort. . . . . f

g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (kg.

Hazardous Waste Stream Report - Back JAN 06, 1

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-000

Waste name.
Y-12 BASES RETURNED | Waste stream 22

12. Chemical Characteristics. | Concentration units. For EP toxic wastes, indicate PPM.

| pH | Flash point | Reactive code |
|---|---|---|
| <10 | | |

PPM

Major and hazardous consituents.

| | lower | upper |
|---|---|---|
| A SPENT HALOGENATED SOLVENTS | 2V | 40V |
| B CHROMIUM | 0P | 9100P |
| C MERCURY | 0P | 2.7P |
| D. WATER | 60V | 98V |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========

Below is for department use only.

17.

| Date rcvd | Complete? Yes | Complete? No | Test results? Yes | Test results? No | Reasonable? Yes | Reasonable? No | Follow-up Yes | Follow-up No | Initials |
|---|---|---|---|---|---|---|---|---|---|

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Repor |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 19

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

2. Waste name.
K-1401 DIVERSEY | Waste stream I 25

| 3. Give years waste generated | Date stopped | Frequency of generation |
|---|---|---|
| 1944- | /00/00 | VARIOUS |

| 4. Mark all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) | EPA waste codes | SIC |
|---|---|---|
| CODES\| C | D002 | 2819 |

| 5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| LIQUID, WATER BASED | .0 | | 9.000 | .0 | .0 |

6. Generation rates in kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days stored |
|---|---|---|---|
| 4,000 | 10,000 | 4,000 | 30 |

| 7. DOT shipping name | DOT hazard class | DOT ID code |
|---|---|---|
| # | CORROSIVE | # |

8. Describe generation process.
WASTE GENERATED DURING METALS CLEANING OPERATION. THIS IS AMIXED WASTE.

** ANNUAL REPORT SECTION ** LINES 9-11

| 9. Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(X

g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (kg)

Hazardous Waste Stream Report - Back JAN 06, 19

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

Waste name.
K-1401 DIVERSEY | Waste stream I 26

12. Chemical Characteristics.
pH | Flash point | Reactive code
<2.5
Major and hazardous consituents.
A SODIUM BISULFATE
B WATER

Concentration units. For EP toxic wastes, indicate PPM.
% VOLUME

| lower | upper
20V 30V
70V 80V

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========
Below is for department use only.

| 17. Date rcvd | Complete? Yes | No | Test results? Yes | No | Reasonable? Yes | No | Follow-up Yes | No | Initials |
|---|---|---|---|---|---|---|---|---|---|

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| R | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06,

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID COI
TN0 89-009-0(

2. Waste name.
AMMONIUM PERSULFATE | Waste stream
27

3. Give years waste generated | Date stopped | Frequency of generatior
1973- /00/00 VARIOUS

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| C | D002 | 2819

5.

| Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| LIQUID, WATER BASED | 10.0 | | 16.000 | .0 | |

6. Generation rates in kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days stc |
|---|---|---|---|
| 100 | 335 | 750 | 500 |

7.

| DOT shipping name | DOT hazard class | DOT ID cc |
|---|---|---|
| WASTE AMMONIUM PERSULFATE | OXIDIZER | 1444 |

8. Describe generation process.
PRINTED CIRCUIT BOARD MANUFACTURING PROCESS. THIS IS A PUREWASTE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 73 lbs | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 73 lbs | Y (N) | T-31 |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials
e. Improved operations. . . .
f. No effort. . . . . .

g. Other - explain below: . . . . . g(X) Circuit Board Manufacturi.
Process discontinued

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction
| (K

Hazardous Waste Stream Report - Back JAN 06,

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID COD:
TN0 89-009-00(

Waste name.
AMMONIUM PERSULFATE | Waste stream
27

12. Chemical Characteristics. | Concentration units. For EP toxic
pH | Flash point | Reactive code | wastes, indicate PPM.
<2 % VOLUME

Major and hazardous consituents. | lower | upper
A AMMONIUM PERSULFATE 4 6
B WATER 84 86

13. If this waste is recovered, reclaimed, recycled, or reused, describe hot

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========
Below is for department use only.

| 17. Date rcvd | Complete? Yes | Complete? No | Test results? Yes | Test results? No | Reasonable? Yes | Reasonable? No | Follow-up Yes | Follow-up No | Initials |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

Status| Not hazardous (1); Demonstrated not hazardous (2); Status Repor
Small generator (3); Resource recovery (4); 5 Y
Partial exemption (5);Hazardous (6);
Accidental (7); No longer generated (8); Variance granted (9); Condi
tionally exempt (A); Mixed radiological wastse (R).

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 198

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

2. Waste name.
HYDROCHLORIC ACID (20% SOLUTION) | Waste stream ID 28

3. Give years waste generated | Date stopped | Frequency of generation
1973- /00/00 VARIOUS

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| C |D002 | 2819

5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb.
LIQUID, WATER BASED | .0 | | 14.000 | .0 | .0

6. Generation rates in kilograms.
Monthly maximum | Annual average | Max. amount stored | Max. days stored
40 223 450 500

7. DOT shipping name | DOT hazard class | DOT ID code
WASTE HYDROCHLORIC ACID CORROSIVE 1798

. Describe generation process.
PRINTED CIRCUIT BOARD MANUFACTURING PROCESS. THIS IS A PUREWASTE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 226 kg | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 226 kg | Y (N) | T-31 |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d( )
e. Improved operations. . . . e( )
f. No effort. . . . . f( )
g. Other - explain below: . . . . . g(X) Circuit Board Manufacturing Process is discontinued

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (kg)

Hazardous Waste Stream Report - Back JAN 06, 198

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

Waste name.
HYDROCHLORIC ACID (20% SOLUTION) | Waste stream ID 28

12. Chemical Characteristics.

| pH | Flash point | Reactive code |
|---|---|---|
| <2 | | |

Concentration units. For EP toxic wastes, indicate PPM.
% VOLUME

Major and hazardous consituents.

| | lower | upper |
|---|---|---|
| A HYDROCHLORIC ACID | 20 | 20 |
| B WATER | 80 | 80 |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========

Below is for department use only.

17.

| Date rcvd | Complete? Yes | Complete? No | Test results? Yes | Test results? No | Reasonable? Yes | Reasonable? No | Follow-up Yes | Follow-up No | Initials |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 19

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

2. Waste name.
CATALYST 6F | Waste stream I 29

3. Give years waste generated | Date stopped | Frequency of generation
1973- /00/00 VARIOUS

4. Mark all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f)
CODES| BC | EPA waste codes D001 D002 ~~D006~~ | SIC 2819

5.

| Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| LIQUID, WATER BASED | 10.0 | | 10.000 | .0 | .0 |

6. Generation rates in kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days stored |
|---|---|---|---|
| 80 | 116 | 300 | 500 |

7.

| DOT shipping name | DOT hazard class | DOT ID code |
|---|---|---|
| WASTE CORROSIVE LIQUIDS, N.O.S. | CORROSIVE | 1760 |

8. Describe generation process.
PRINTED CIRCUIT BOARD MANUFACTURING PROCESS. THIS IS A PUREWASTE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (Kg) | Amount on site on first day (Kg) | Amount on site on last day (Kg) |
|---|---|---|---|
| 1988 | 136 lbs | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 136 lbs | Y (N) | T-31 |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(
g. Other - explain below: . . . . . g(X) Circuit Board Manufacturing Process Discontinued

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (Kg)

Hazardous Waste Stream Report - Back JAN 06, 19

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

Waste name.
CATALYST 6F | Waste stream I 29

12. Chemical Characteristics. | Concentration units. For EP toxic wastes, indicate PPM.
pH | Flash point | Reactive code |
<1
PPM

Major and hazardous consituents.

| | lower | upper |
|---|---|---|
| A CHROMIUM | 6.5 | 6.5 |
| B ACID | 10 | 80 |
| C WATER | 80 | 90 |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========
Below is for department use only.

| 17. Date rcvd | Complete? Yes | Complete? No | Test results? Yes | Test results? No | Reasonable? Yes | Reasonable? No | Follow-up Yes | Follow-up No | Initials |
|---|---|---|---|---|---|---|---|---|---|

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 1

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-000

2. Waste name.
ACCELERATOR 19 | Waste stream 30

3. Give years waste generated | Date stopped | Frequency of generation
1973- /00/00 VARIOUS

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES | C | D002 | 2819

5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb.
LIQUID, WATER BASED | 5.0 | | 10.000 | .0 | .0

6. Generation rates in kilograms.
Monthly maximum | Annual average | Max. amount stored | Max. days stor
120 | 1,404 | 1,404 | 360

7. DOT shipping name | DOT hazard class | DOT ID cod
WASTE CORROSIVE LIQUIDS, N.O.S. | CORROSIVE | 1760

8. Describe generation process.
PRINTED CIRCUIT BOARD MANUFACTURING PROCESS. THIS IS A PUREWASTE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 220 lbs | 143 lbs | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 220 lbs | Y (N) | T-31 |
| B | 143 lbs | Y (N) | T-31 |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(
g. Other - explain below: . . . . . g(X) Circuit Boards Manufacturing Process Discontinued

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (kg)

Hazardous Waste Stream Report - Back JAN 06,

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID COD
TN0 89-009-00

Waste name.
ACCELERATOR 19 | Waste stream
30

12. Chemical Characteristics. | Concentration units. For EP toxic
pH | Flash point | Reactive code | wastes, indicate PPM.
1.2 % VOLUME
Major and hazardous consituents. | lower | upper
A WATER 98 98
B ACID 2 2

13. If this waste is recovered, reclaimed, recycled, or reused, describe ho

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========
Below is for department use only.

| 17. Date rcvd | Complete? Yes | No | Test results? Yes | No | Reasonable? Yes | No | Follow-up Yes | No | Initials |
|---|---|---|---|---|---|---|---|---|---|

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Repo |
|---|---|
| 6 | Y |

18. Comments.

9A Generated in 1988 220 lbs

9B Taken out of storage 143 lbs

Total Disposal of off-site

Hazardous Waste Stream Report - Front JAN 06, 198

ee full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

2. Waste name.
LEAD BATH | Waste stream ID 31

| 3. Give years waste generated | Date stopped | Frequency of generation |
|---|---|---|
| 1973- | /00/00 | VARIOUS |

| 4. Mark all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) | EPA waste codes | SIC |
|---|---|---|
| CODES\| BC | D002D007D008 | 2819 |

| 5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| LIQUID, WATER BASED | 5.0 | | 12.000 | .0 | .0 |

6. Generation rates in Kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days stored |
|---|---|---|---|
| 120 | 1,404 | 1,404 | 360 |

| 7. DOT shipping name | DOT hazard class | DOT ID code |
|---|---|---|
| WASTE CORROSIVE LIQUIDS, N.O.S. | CORROSIVE | 1760 |

8. Describe generation process.
PRINTED CIRCUIT BOARD MANUFACTURING PROCESS. THIS IS A PUREWASTE.

** ANNUAL REPORT SECTION ** LINES 9-11

| 9. Report Year | Amount generated during year (Kg) | Amount on site on first day (Kg) | Amount on site on last day (Kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d( )
e. Improved operations. . . . e( )
f. No effort. . . . . f(X)
g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (Kg)

Hazardous Waste Stream Report - Back JAN 06, 19

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

Waste name.
LEAD BATH | Waste stream I 31

12. Chemical Characteristics.

| pH | Flash point | Reactive code |
|---|---|---|
| <2.0 | | |

Concentration units. For EP toxic wastes, indicate PPM.
PPM

| Major and hazardous consituents. | lower | upper |
|---|---|---|
| A LEAD | 2000 | 2000 |
| B CHROMIUM | 12 | 12 |
| C WATER | 26.7 | 26.7 |
| D PEPTONE | 0.48 | 0.48 |
| E FLUOBORIC ACID | 5.7 | 5.7 |
| F BORIC ACID POWDER | 0.9 | 0.9 |
| G LEAD FLUOBORATE | 16.5 | 16.5 |
| H TIN FLUOBORATE | 49.6 | 49.6 |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE (Generator or authorized representative), title and date.

Below is for department use only.

| 17. Date rcvd | Complete? Yes | Complete? No | Test results? Yes | Test results? No | Reasonable? Yes | Reasonable? No | Follow-up Yes | Follow-up No | Initials |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06,

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID COI TN0 89-009-0C

2. Waste name.
LAC 41 | Waste stream 32

3. Give years waste generated | Date stopped | Frequency of generation
1973- /00/00 VARIOUS

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| BC | D002D008 | 2819

5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb.
LIQUID, WATER BASED | 5.0 | | 9.000 | .0 |

6. Generation rates in kilograms.
Monthly maximum | Annual average | Max. amount stored | Max. days sto
45 125 600 700

7. DOT shipping name | DOT hazard class | DOT ID co
WASTE CORROSIVE LIQUIDS, N.O.S. CORROSIVE 1760

8. Describe generation process.
PRINTED CIRCUIT BOARD MANUFACTURING PROCESS. THIS IS A PUREWASTE.

** ANNUAL REPORT SECTION ** LINES 9-11

| 9. Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 137 lbs | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 137 lbs | Y (N) | T-31, T-21 |
| B | 90 lbs | Y (N) | T-31, T-21 |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials
e. Improved operations. . . .
f. No effort. . . . . :

g. Other - explain below: . . . . . g(X) Circuit Board Manufacturing Process Discontinued

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (kg

Hazardous Waste Stream Report - Back JAN 06, 1

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-000

Waste name.
LAC 41 | Waste stream 32

12. Chemical Characteristics. | Concentration units. For EP toxic wastes, indicate PPM.
pH | Flash point | Reactive code |
1.7

Major and hazardous consituents.

| | lower | upper |
|---|---|---|
| A LEAD | 5 | 5 |
| B WATER | 98.8V | 98.8V |
| C ORGANIC ACID | 1.2VO | 1.2VO |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========

Below is for department use only.

| 17. Date rcvd | Complete? Yes | No | Test results? Yes | No | Reasonable? Yes | No | Follow-up Yes | No | Initials |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Repor |
|---|---|
| 6 | Y |

18. Comments.

9A Generated in 1988

9B Taken out of Storage 90 lbs

Total Disposed of off-site

Hazardous Waste Stream Report - Front JAN 06, 198

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TNC 89-009-0004

2. Waste name.
ACID COPPER BATH | Waste stream ID 33

| 3. Give years waste generated | Date stopped | Frequency of generation |
|---|---|---|
| 1973- | /00/00 | VARIOUS |

| 4. Mark all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) | EPA waste codes | SIC |
|---|---|---|
| CODES\| C | D002 | 2819 |

| 5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| LIQUID, WATER BASED | 25.0 | | 10.000 | .0 | .0 |

6. Generation rates in kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days stored |
|---|---|---|---|
| 45 | 468 | 234 | 360 |

| 7. DOT shipping name | DOT hazard class | DOT ID code |
|---|---|---|
| WASTE CORROSIVE LIQUIDS, N.O.S. | CORROSIVE | 1760 |

8. Describe generation process.
PRINTED CIRCUIT BOARD MANUFACTURING PROCESS. THIS IS A PUREWASTE.

** ANNUAL REPORT SECTION ** LINES 9-11

| 9. Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

| | | | |
|---|---|---|---|
| a. | Reformulation/redesign of product a( ) | d. | Substituting raw materials d( ) |
| b. | In process recycling. . . . . b( ) | e. | Improved operations. . . . e( ) |
| c. | Equipment/technology modification c( ) | f. | No effort. . . . . f(X) |

g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (kg)

Hazardous Waste Stream Report - Back JAN 06, 198

The full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

Waste name.
ACID COPPER BATH | Waste stream ID 33

12. Chemical Characteristics. | Concentration units. For EP toxic wastes, indicate PPM.

| pH | Flash point | Reactive code |
|---|---|---|
| 1.3 | | |

% VOLUME

Major and hazardous consituents.

| | lower | upper |
|---|---|---|
| A COPPER SULFATE | 85 | 85 |
| B SULFURIC ACID | 5 | 5 |
| C GLYCINE | 10 | 10 |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

Below is for department use only.

| 17. Date rcvd | Complete? Yes | Complete? No | Test results? Yes | Test results? No | Reasonable? Yes | Reasonable? No | Follow-up Yes | Follow-up No | Initials |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| 6 | Y |

18. Comments.

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-000

2. Waste name.
NICKEL SULFAMATE | Waste stream 34

3. Give years waste generated | Date stopped | Frequency of generation
1973- /00/00 VARIOUS

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| B |D008 | 2819

5.

| Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| LIQUID, WATER BASED | 15.0 | | 9.000 | .0 | .0 |

6. Generation rates in Kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days stor |
|---|---|---|---|
| 40 | 60 | 450 | 700 |

7.

| DOT shipping name | DOT hazard class | DOT ID cod |
|---|---|---|
| WASTE HAZARDOUS SUBSTANCE, LIQUIDS, N.O.S. | O R M - E | 9188 |

8. Describe generation process.
PRINTED CIRCUIT BOARD MANUFACTURING PROCESS. THIS IS A PUREWASTE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (Kg) | Amount on site on first day (Kg) | Amount on site on last day (Kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d
e. Improved operations. . . . e
f. No effort. . . . . f

g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (Kg)

Hazardous Waste Stream Report - Back JAN 06, 1

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-000

Waste name.
NICKEL SULFAMATE | Waste stream 34

12. Chemical Characteristics. | Concentration units. For EP toxic wastes, indicate PPM.

| pH | Flash point | Reactive code | |
|---|---|---|---|
| 5.1 | | | % VOLUME |

Major and hazardous consituents.

| | lower | upper |
|---|---|---|
| A NICKEL SULFAMATE | 28 | 28 |
| B NICKEL CHLORIDE | 22 | 22 |
| C BORIC ACID | 4 | 4 |
| D WATER | 46 | 46 |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========

Below is for department use only.

| 17. Date rcvd | Complete? Yes | Complete? No | Test results? Yes | Test results? No | Reasonable? Yes | Reasonable? No | Follow-up Yes | Follow-up No | Initials |
|---|---|---|---|---|---|---|---|---|---|

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Repor |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front DEC 31

See full instructions for form PH-2022 for additional information and code

1. Organization's name.
UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE | EPA ID C
TN0 89-009-

2. Waste name.
FLAMMABLE LIQUID LAB PACKS | Waste stre
35

3. Give years waste generated | Date stopped | Frequency of generati
1944 / / Various

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| A | D001/F002/F003 2819

5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb.
LIQUID, OTHER BASED | 000.0 | | 0008.000 | | |

6. Generation rates in kilograms.
Monthly maximum | Annual average | Max. amount stored | Max. days si
100 kg | 1200 kg | 1200 kg | 360

7. DOT shipping name
WASTE FLAMMABLE LIQUIDS, N.O.S. | DOT hazard class | DOT ID c
FLAMMABLE LIQUID | 1993

8. Describe generation process.
LAB PACKS ARE MADE UP OF SMALL QUANTITIES OF VARIOUS FLAMMABLE LIQUIDS GENERATED DURING PLANT OPERATIONS. THIS IS A PURE WASTE.

xx ANNUAL REPORT SECTION xx LINES 9-11

9.

| Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site o last day (kg) |
|---|---|---|---|
| 1988 | 1154 kg | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 1154 kg | Y (N) | T-07 |
| B | 33 | Y (N) | S-01 |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials
e. Improved operations. . . .
f. No effort. . . . . .
g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c(X). | Amt of Reduction (k

Hazardous Waste Stream Report - Back DEC 31,

See full instructions for form PH-2022 for additional information and codes

Organization's name.
UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE | EPA ID CC
TN0 89-009-(

Waste name.
FLAMMABLE LIQUID LAB PACKS * Waste strea
35

12. Chemical Characteristics. | Concentration units. For EP toxic
pH | Flash point | Reactive code | wastes, indicate PPM.
<140
Major and hazardous consituents. | lower | uppe

13. If this waste is recovered, reclaimed, recycled, or reused, describe h

16. I certify that this information is true, accurate and complete.
SIGNATURE | (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========
Below is for department use only.

| Date rcvd | Complete? Yes | No | Test results? Yes | No | Reasonable? Yes | No | Follow-up Yes | No | Initial |
|---|---|---|---|---|---|---|---|---|---|
| 17. | | | | | | | | | |

Status | Not hazardous (1); Demonstrated not hazardous (2); | Status | Rep
Small generator (3); Resource recovery (4); | 6 | Y
Partial exemption (5); Hazardous (6);
Accidental (7); No longer generated (8);
Variance granted (9); Conditionally exempt (A);
Mixed radiological wastse (R).

18. Comments.

9A Generated in 1988 1154 lbs

9B Taken out of storage 33 lbs

Hazardous Waste Stream Report - Front DEC 31,

See full instructions for form PH-2022 for additional information and codes

1. Organization's name.
UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE | EPA ID CC
TN0 89-009-0

2. Waste name.
CORROSIVE LIQUID LAB PACKS | Waste strea
36

3. Give years waste generated | Date stopped | Frequency of generatic
1986 / / Various

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| C |D002 | 2819

| 5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| LIQUID, WATER BASED | 000.0 | | 0010.000 | | |

6. Generation rates in kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days st |
|---|---|---|---|
| 100 kg | 1200 kg | 1200 kg | 360 |

7. DOT shipping name | DOT hazard class | DOT ID c
WASTE CORROSIVE LIQUIDS, N.O.S. | CORROSIVE | 1760

8. Describe generation process.
LAB PACKS ARE MADE UP OF SMALL QUANTITIES OF CORROSIVE MATERIALS GENERATED DURING PLANT OPERATIONS.

** ANNUAL REPORT SECTION ** LINES 9-11

| 9. Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site o last day (kg) |
|---|---|---|---|
| 1988 | 1230 kg | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 1230 kg | Y (N) | T-31, T-21 |
| B | 21 kg | Y (N) | S-01 |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials
e. Improved operations. . . .
f. No effort. . . . . .

g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reductio:
(:

Hazardous Waste Stream Report - Back DEC 31

See full instructions for form PH-2022 for additional information and code

Organization's name.
UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE | EPA ID C
TN0 89-009-

Waste name.
CORROSIVE LIQUID LAB PACKS * Waste stre
36

12. Chemical Characteristics. | Concentration units. For EP toxi
pH | Flash point | Reactive code | wastes, indicate ~~PPM~~ Percent
<2 to >12.5
Major and hazardous consituents. | lower | upp.
Laboratory and Process chemicals 0 10

13. If this waste is recovered, reclaimed, recycled, or reused, describe

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========
Below is for department use only.

| 17. Date rcvd | Complete? Yes No | Test results? Yes No | Reasonable? Yes No | Follow-up Yes No | Initia. |
|---|---|---|---|---|---|

Status| Not hazardous (1); Demonstrated not hazardous (2); Status Re
Small generator (3); Resource recovery (4); 6 Y
Partial exemption (5);Hazardous (6);
Accidental (7); No longer generated (8);
Variance granted (9); Conditionally exempt (A);
Mixed radiological wastse (R).

18. Comments.

9A Generated in 1988 1230 lbs

9B Taken out of Storage 21 lbs

Hazardous Waste Stream Report - Front DEC 31, 19

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE | EPA ID CODE TN0 89-009-0004

2. Waste name.
CORROSIVE SOLID LAB PACKS | Waste stream I 37

3. Give years waste generated | Date stopped | Frequency of generation
1944 / / Various

4. Mark all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f)
CODES | C | EPA waste codes | D002 | SIC | 2819

5.

| Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| GRANULAR SOLID | 100.0 | | 0000.000 | | |

6. Generation rates in kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days store |
|---|---|---|---|
| 25 kg | 250 kg | 250 kg | 365 |

7.

| DOT shipping name | DOT hazard class | DOT ID code |
|---|---|---|
| WASTE CORROSIVE SOLIDS, N.O.S. | CORROSIVE | 1759 |

8. Describe generation process.
LAB PACKS ARE MADE UP OF SMALL QUANTITIES OF VARIOUS CORROSIVE SOLIDS GENERATED DURING PLANT OPERATIONS. THIS IS A PURE WASTE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 259 kg | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 259 kg | Y (N) | T-31, T-21 |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(X)
g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c(X). | Amt of Reduction (kg)

Hazardous Waste Stream Report - Back DEC 31, 1

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE | EPA ID CODE TN0 89-009-000

Waste name.
CORROSIVE SOLID LAB PACKS * Waste stream : 37

12. Chemical Characteristics. | Concentration units. For EP toxic
pH | Flash point | Reactive code | wastes, indicate PPM.

Major and hazardous consituents.

| | lower | upper |
|---|---|---|
| Sodium Hydroxide | 0 | 100 |
| Sodium Bi Fluoride | 0 | 100 |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

Below is for department use only.

| 17. Date rcvd | Complete? Yes | Complete? No | Test results? Yes | Test results? No | Reasonable? Yes | Reasonable? No | Follow-up Yes | Follow-up No | Initials |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report Y | Report N |
|---|---|---|
| 6 | | |

18. Comments.

# Hazardous Waste Stream Report

Tennessee Department of Health and Environment, Division of Solid Waste Management,
Customs House - Fourth Floor, 701 Broadway, Nashville, TN 37219-5403

1. Organization's full name or facility.
UNITED STATES DEPARTMENT OF ENERGY
K-25 SITE

EPA identification code
TN089-009-0004

2. Waste name. Use standard name from regulations whenever possible.
POISONOUS LIQUID LAB PACK

Waste Stream number
38

3. Give the years that this waste has been generated, e.g. 1975, 1982-.
1944

Date no longer generated. (MM/DD/YY)
/ /

Frequency of generation
Continuous  Accidental/ One time  (Various)

4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f).

EPA waste codes. (Primary first)

SIC code for generating process.
2819

| 5. Physical form | Percent solid | Percent water | Vol. to wt. conversion (pounds per gallon) | If used for fuel, chlorine content (PPM) | If used for fuel, BTU per pound /lb. |
|---|---|---|---|---|---|
| LIQUID | 10 % | % | | | |

| 6. Generation rates. Supply all rates in kilograms. Monthly maximum | Annual average (kg) | Maximum amount stored on site (kg) | Maximum days stored |
|---|---|---|---|
| | | | |

| 7. DOT shipping name | DOT hazard class | DOT ID code |
|---|---|---|
| WASTE POISONOUS LIQUIDS, N.O.S. | POISON B | UN2810 |

8. Describe generation process.
laboratory chemical or process chemicals - small quantities of various poisonous liquids generated during plant operation This is a pure waste.

*** ANNUAL REPORT SECTION *** Complete at end of each year and when terminating business for a waste which requires notification. Continue with line 12.

9. Annual generation and handling data. If waste was shipped off site, also submit Annual Shipping Report for hazardous waste generators. For handling in a permitted facility, use "T", "S", or "D" codes from instructions. For other handling, use "H" codes from instructions.

| Report Year | Amount generated during year (kg) | Amount on site on first day of year (kg) | Amount on site on last day of year (kg) |
|---|---|---|---|
| 1988 | 33 kg | 0 | 0 |

| | Amount Handled | Handled On site? Y/N | TSDF handling/Waste management methods | | Amount Handled | Handled On site? Y/N | TSDF handling/Waste management methods |
|---|---|---|---|---|---|---|---|
| a | 33 kg | Y(N) | T-27, T-21 | b | | | |
| c | | | | d | | | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year. This reduction refers to generation processes and not treatment methods.

a. Reformulation/redesign of product . a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification . c( )
d. Substituting raw materials . . . .d( )
e. Improved operations. . . . . .e( )
f. No effort. . . . . .f(X)
g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that these reduction efforts described in line 10 produced this year compared to the previous year.

Amount of Reduction (kg)

a. Increased toxicity-a( ), b. decreased toxicity-a( ), c. No change-c(X)

| 12. Physical Characteristics. | Flash point | Reactive code | Concentration units. For EP toxic wastes, indicate PPM. (% volume( ), % weight( ), PPM( )) |
|---|---|---|---|
| a. N/A | N/A | | |

| Major and hazardous constituents. Give range of values if right. | Lower value | Upper value |
|---|---|---|
| a. Sodium Cyanide | 0 | 100 |
| b. Potassium Cyanide | 0 | 100 |
| c. Copper Sulfate | 0 | 100 |
| d. Various Laboratory chemicals | 0 | 100 |
| e. | | |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

14. Describe storage, treatment, and disposal methods using codes in the instructions.

| Location | Treatment codes | Storage codes | Disposal codes |
|---|---|---|---|
| On site: | | | |
| Off site: | | | |

15. Identify transporters, TSDF operators and recyclers involved in handling this waste.

| Name and address | EPA identification code |
|---|---|
| | |
| | |

16. Certification: I certify that this information is true, accurate and complete.
SIGNATURE: (Generator or authorized representative) | TITLE: | DATE:

*** Below is for Department use only. **********

| 17. Date received (MMDDYY) | Complete? | Test results? | Reasonable? | Follow_up | Initials |
|---|---|---|---|---|---|
| | Yes No | Yes No | Yes No | Yes No | |

Status: Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); and Mixed radiological wastes (R).

| Status | Further Reporting | |
|---|---|---|
| | Y | N |

18. Comments.

# Hazardous Waste Stream Report

Tennessee Department of Health and Environment, Division of Solid Waste Management, Customs House - Fourth Floor, 701 Broadway, Nashville, TN 37219-5403

1. Organization's full name at facility.
UNITED STATES DEPARTMENT OF ENERGY
K-25 SITE

EPA identification code
TN089-009-0004

2. Waste name. Use standard name from regulations whenever possible.
POISONOUS SOLIDS LAB PACK

Waste Stream number
39

3. Give the years that this waste has been generated; e.g. 1975; 1982-.
1944

Date no longer generated. (MM/DD/YY)

Frequency of generation
Continuous  Accidental/ One time  (Various)

4. Circle all appropriate hazard criteria below. Ignitable (a); EP toxic (b); Corrosive (c); Reactive (e); Other toxic (f).

EPA waste codes. (Primary first)

SIC code for generating process.
2819

5. Physical form
SOLID

Percent solid %
Percent water %
Vol. to wt. conversion (pounds per gallon)
If used for fuel, chlorine content PPM
BTU per pound /lb.

6. Generation rates. Supply all rates in kilograms.
Monthly maximum (kg)
Annual average (kg)
Maximum amount stored on site (kg)
Maximum days stored

7. DOT shipping name
WASTE POISONOUS SOLIDS, N.O.S.

DOT hazard class
POISON B

DOT ID code
UN2811

8. Describe generation process.
Laboratory or process chemicals — small quantites of various poisonous solids generated during plant operations. This is a pure waste.

*** ANNUAL REPORT SECTION *** Complete at end of each year and when terminating business for a waste which requires notification. Continue with line 12.

9. Annual generation and handling data. If waste was shipped off site, also submit Annual Shipping Report for hazardous waste generators. For handling in a permitted facility, use "T", "S", or "D" codes from instructions. For other handling, use "H" codes from instructions.

| Report Year | Amount generated during year (kg) | Amount on site on first day of year (kg) | Amount on site on last day of year (kg) |
|---|---|---|---|
| 1988 | 117 lbs | 0 | 0 |

| | Amount Handled | Handled On site? Y/N | TSDF handling/Waste management methods |
|---|---|---|---|
| a | 117 lbs | Y/(N) | T-27, T-21 |
| b | | Y/N | |
| c | | Y/N | |
| d | | Y/N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year. This reduction refers to generation processes and not treatment methods.
a. Reformulation/redesign of product . a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification . c( )
d. Substituting raw materials . . . .d( )
e. Improved operations. . . . . .e( )
f. No effort. . . . . .f(X)
g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that these reduction efforts described in line 10 produced last year compared to the previous year.
Amount of Reduction (kg)
a. Increased toxicity-a( ); b. decreased toxicity-b( ); c. No change-c(X).

WASTE STREAM 39

12. Chemical Characteristics.

| pH | Flash point | Reactive code | Concentration units. For EP toxic wastes, indicate PPM. % volume( ); % weight( ); PPM( ) |
|---|---|---|---|
| N/A | N/A | | |

| Major and hazardous constituents. Give range of values at right. | Lower value | Upper value |
|---|---|---|
| a. Cyanide solids | 0 | 100 |
| b. Mecuric salts (solids) | 0 | 100 |
| c. | | |
| d. | | |
| e. | | |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

14. Describe storage, treatment, and disposal methods using codes in the instructions.

| Location | Treatment codes | Storage codes | Disposal codes |
|---|---|---|---|
| On site: | | | |
| Off site: | | | |

15. Identify transporters, TSDF operators and recyclers involved in handling this waste.

| Name and address | EPA identification code |
|---|---|
| | |
| | |
| | |

16. Certification: I certify that this information is true, accurate and complete.

| SIGNATURE: (Generator or authorized representative) | TITLE: | DATE: |
|---|---|---|
| | | |

--- Below is for Department use only. **********

| 17. Date received (MMDDYY) | Complete? | | Test results? | | Reasonable? | | Follow_up | | Initials |
|---|---|---|---|---|---|---|---|---|---|
| | Yes | No | Yes | No | Yes | No | Yes | No | |

Status: Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); and Mixed radiological wastes (R).

| Status | Further Reporting | |
|---|---|---|
| | Y | N |

18. Comments.

Hazardous Waste Stream Report - Back DEC 31,

See full instructions for form PH-2022 for additional information and codes

Oryanization's name. | EPA ID CO
UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE | TN0 89-009-0

Waste name. * Waste strea
OXIDIZING SUBSTANCES, LAB PACK 40

12. Chemical Characteristics. | Concentration units. For EP toxic
pH | Flash point | Reactive code | wastes, indicate ~~PPM~~: percent

Major and hazardous consituents. | lower | uppe
Various Laboratory, process chemicals 0 100

13. If this waste is recovered, reclaimed, recycled, or reused, describe h

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========
Below is for department use only.

| 17. Date rcvd | Complete? Yes | No | Test results? Yes | No | Reasonable? Yes | No | Follow-up Yes | No | Initial |
|---|---|---|---|---|---|---|---|---|---|

Status| Not hazardous (1); Demonstrated not hazardous (2); Status Rep
Small generator (3); Resource recovery (4); 6 Y
Partial exemption (5);Hazardous (6);
Accidental (7); No longer generated (8);
Variance granted (9); Conditionally exempt (A),
Mixed radiological wastse (R)

18. Comments.

# Hazardous Waste Bitream Report

Tennessee Department of Health and Environment, Division of Solid Waste Management
Cordell Hull Building - Fourth Floor, 301 Broadway, Nashville, TN 37219-5403

1. Organization's full name at facility: UNITED STATES DEPARTMENT OF ENERGY K-25 SITE
EPA identification code: TN089-009-0004

2. Waste name. Use standard name from regulations whenever possible.: HAZARDOUS WASTE LAB PACKS
Waste Stream number: 41

3. Give the years that this waste has been generated, e.g. 1975, 1982-.: 1944
Date no longer generated. (MM/DD/YY): | |
Frequency of generation: Continuous / Accidental/ One time / (Various)

4. Circle all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f).
EPA waste codes. (Primary first): D001
SIC code for generating process.

5. Physical form: Liquid
Percent solid: 10 %
Percent water: %
Vol. to wt. conversion (pounds per gallon): 10 lbs/gallon
If used for fuel, chlorine content: PPM
BTU per pound: /lb.

6. Generation rates. Supply all rates in kilograms.
Monthly maximum: 30 (kg)
Annual average: 350 (kg)
Maximum amount stored on site: 350 (kg)
Maximum days stored: 360

7. DOT shipping name: Hazardous Waste Liquid
DOT hazard class: ORM-E
DOT ID code: NA 9189

8. Describe generation process.
chemicals from Laboratory or process
Small Quantities of various hazardous waste chemicals generated during plant operations
This is a pure waste.

*** ANNUAL REPORT SECTION *** Complete at end of each year and when terminating business for a waste which requires notification. Continue with line 12.

9. Annual generation and handling data. If waste was shipped off site, also submit Annual Shipping Report for hazardous waste generators. For handling in a permitted facility, use "T", "S", or "D" codes from instructions. For other handling, use "H" codes from instructions.

| Report Year | Amount generated during year (kg) | Amount on site on first day of year (kg) | Amount on site on last day of year (kg) |
|---|---|---|---|
| 1988 | 236 lbs | 0 | 0 |

| | Amount Handled | Handled On site? Y/N | TSDF handling/Waste management methods | | Amount Handled | Handled On site? Y/N | TSDF handling/Waste management methods |
|---|---|---|---|---|---|---|---|
| a | 236 lbs | Y (N) | T-07 | b | | | |
| c | 80 lbs | Y (N) | S-01 | d | | | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year. This reduction refers to generation processes and not treatment methods.
a. Reformulation/redesign of product . a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification . c( )
d. Substituting raw materials . . . .d( )
e. Improved operations. . . . . e( )
f. No effort. . . . . f(X)
g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that these reduction efforts described in line 10 produced last year compared to the previous year.
Amount of Reduction (kg)
a. Increased toxicity-a( ), b. decreased toxicity-b( ), c. No change-c(X).

WASTE STREAM NO. 41

12. Chemical Characteristics.

| | Flash point | Reactive code | Concentration units. For EP toxic wastes, indicate EPA. % volume (v) % weight (w), ppm (p) | |
|---|---|---|---|---|
| Major and hazardous constituents. Give range if as used at unit. | | | Best value | Upper value |
| a. | | | | |
| b. | | | | |
| c. | | | | |
| d. | | | | |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

14. Describe storage, treatment, and disposal methods using codes in the instructions.

| Location | Treatment codes | Storage codes | Disposal codes |
|---|---|---|---|
| On site: | | | |
| Off site: | | | |

15. Identify transporters, TSDF operators and recyclers involved in handling this waste.

| Name and address | EPA identification code |
|---|---|
| | |
| | |
| | |

16. Certification: I certify that this information is true, accurate and complete.

SIGNATURE: (Generator or authorized representative) | TITLE: | DATE:

--- Below is for Department use only. **********

| 17. Date received (MMDDYY) | Complete? | | Test results? | | Reasonable? | | Follow_up | | Initials |
|---|---|---|---|---|---|---|---|---|---|
| | Yes | No | Yes | No | Yes | No | Yes | No | |

Status: Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); and Mixed radiological wastes (R).

| Status | Further Reporting | |
|---|---|---|
| | Y | N |

18. Comments.

9A Generated in 1988 236 lbs

9B Taken out of storage 80 lbs

# Hazardous Waste Stream Report - Front

JAN 06, 19

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0001

2. Waste name.
SPENT SOLVENTS | Waste stream 42

3. Give years waste generated 1944- | Date stopped /00/00 | Frequency of generation CONTINUOUS

4. Mark all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f)
CODES| AF | EPA waste codes F001F002D001 | SIC 2819

5.

| Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| LIQUID, WATER BASED | 5.0 | | 8.000 | .0 | .0 |

6. Generation rates in Kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days store |
|---|---|---|---|
| 12,232 | 20,000 | 236,782 | |

7. DOT shipping name
WASTE HAZARDOUS SUBSTANCE, N.O.S., ORM-E | DOT hazard class O R M - E | DOT ID code 9189

8. Describe generation process.
WASTE GENERATED FROM VARIOUS DEGREASING, CLEANING, AND PAINTING OPERATIONS. THIS IS A MIXED WASTE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 5942 lbs | Y (N) | T-07 |
| B | 2017 lbs | (Y) N | S-01, S-02 |
| C | 1600 lbs | Y (N) | S-02 |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d( )
e. Improved operations. . . . e( )
f. No effort. . . . . f(X)
g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c(X). | Amt of Reduction (kg)

Hazardous Waste Stream Report - Back JAN 06, 1

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-000

Waste name.
SPENT SOLVENTS | Waste stream 42

12. Chemical Characteristics.
pH | Flash point | Reactive code | Concentration units. For EP toxic wastes, indicate PPM.
# 200 F % VOLUME

Major and hazardous consituents.

| | lower | upper |
|---|---|---|
| A HALOGENATED/NONHALOGENATED SOLVENTS | 1 | 99 |
| B WATER | 1 | 99 |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE | (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========

Below is for department use only.

17. Date rcvd | Complete? Yes No | Test results? Yes No | Reasonable? Yes No | Follow-up Yes No | Initials

Status | Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| R | Y |

18. Comments.

9A Generated in 1988 5942 lbs

9B Taken to Storage 2017 lbs

9C Shipped off site storage 1600 lbs

Hazardous Waste Stream Report - Front JAN 06, 19

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-000

2. Waste name.
PAINT WASTE | Waste stream 44

| 3. Give years waste generated | Date stopped | Frequency of generation |
|---|---|---|
| 1944- | /00/00 | VARIOUS |

| 4. Mark all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) | EPA waste codes | SIC |
|---|---|---|
| CODES\| AB | D001D005D007 D008 | 2819 |

| 5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| LIQUID, OTHER BASED | 30.0 | | 12.000 | .0 | .0 |

6. Generation rates in kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days store |
|---|---|---|---|
| 300 | 2,812 | 2,812 | 360 |

| 7. DOT shipping name | DOT hazard class | DOT ID code |
|---|---|---|
| WASTE PAINT RELATED MATERIAL | FLAMMABLE LIQUID | 1263 |

8. Describe generation process.
WASTE GENERATED FROM THE PAINT SHOPS AT THE PLANT FACILITY. THIS IS A MIXED WASTE.

** ANNUAL REPORT SECTION ** LINES 9-11

| 9. Report Year | Amount generated during year (Kg) | Amount on site on first day (Kg) | Amount on site on last day (Kg) |
|---|---|---|---|
| 1988 | 4594 lbs | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 731 lbs | Y (N) | T-07 |
| B | 3863 lbs | (Y) N | S-01, S-02 |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(

g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10. produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c(X). | Amt of Reduction (Kg)

Hazardous Waste Stream Report - Back JAN 06, 1

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-000

Waste name.
PAINT WASTE | Waste stream 44

12. Chemical Characteristics. | Concentration units. For EP toxic wastes, indicate PPM.

| pH | Flash point | Reactive code |
|---|---|---|
| | <100C | |

Major and hazardous consituents.

| | lower | upper |
|---|---|---|
| A PAINT | 40 | 60 |
| B WATER | 10 | 20 |
| C SLUDGE | 20 | 40 |
| D BARIUM | <100 | 300 |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how

16. I certify that this information is true, accurate and complete.
SIGNATURE (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========

Below is for department use only.

| 17. Date rcvd | Complete? Yes | No | Test results? Yes | No | Reasonable? Yes | No | Follow-up Yes | No | Initials |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

Status | Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| R | Y |

18. Comments.

9A Generated in 1988 Off site Disposal 731 lbs

9B ON site Storage 3863 lbs

Hazardous Waste Stream Report - Front DEC 31, 19

e full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE | EPA ID CODE TN0 89-009-0004

2. Waste name.
METHYLENE CHLORIDE | Waste stream II 46

3. Give years waste generated | Date stopped | Frequency of generation
1944 / / VARIOUS

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| F
|F002 |2819

5. Physical form |% Solid|% Water|Lb./gal. | Chlorine PPM | BTU/lb.
LIQUID, OTHER BASED | 000.0| |0008.000 | |

6. Generation rates in kilograms.
Monthly maximum | Annual average | Max. amount stored | Max. days stored

7. DOT shipping name
WASTE DICHLOROMETHANE | DOT hazard class | DOT ID code
O R M - E 1593

8. Describe generation process.
WASTE GENERATED DURING EQUIPMENT DEGREASING OPERATIONS. THIS IS A MIXED WASTE.

** ANNUAL REPORT SECTION ** LINES 9-11

9. Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg)
1988 | 0 | 0 | 0

| Amount Handled | Handled On site? | TSDF handling/Waste management methods
A | 0 | Y N |
B | | Y N |
C | | Y N |
D | | Y N |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(X)
g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c(X). | Amt of Reduction (kg)

Hazardous Waste Stream Report - Back DEC 31, 198

e full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE | EPA ID CODE TN0 89-009-0004

Waste name.
METHYLENE CHLORIDE * Waste stream ID 46

12. Chemical Characteristics. | Concentration units. For EP toxic
pH | Flash point | Reactive code | wastes, indicate PPM.

Major and hazardous consituents.

| | lower | upper |
|---|---|---|
| A METHYLENE CHLORIDE | 95 | 100 |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

Below is for department use only.

| 17. Date rcvd | Complete? Yes | Complete? No | Test results? Yes | Test results? No | Reasonable? Yes | Reasonable? No | Follow-up Yes | Follow-up No | Initials |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report Y | Report N |
|---|---|---|
| 6 | | |

18. Comments.

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-000

2. Waste name.
URANIUM HEXAFLUORIDE | Waste stream 47

3. Give years waste generated | Date stopped | Frequency of generation
1944-1986 /00/00 VARIOUS

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| C | D002 | 2819

5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb.
GAS | .0 | | .000 | .0 | .0

6. Generation rates in Kilograms.
Monthly maximum | Annual average | Max. amount stored | Max. days stor
25 25 365

7. DOT shipping name | DOT hazard class | DOT ID cod
WASTE URANIUM HEXAFLUORIDE LOW SPECIFIC ACTI | CORROSIVE | 2978

8. Describe generation process.
WASTE GENERATED FROM CONTAINERS WHICH HAVE BEEN DAMAGED. UF6 IS SPECIAL NUCLEAR AND BY-PRODUCT MATERIALS ARE EXEMPT BY AEC.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (Kg) | Amount on site on first day (Kg) | Amount on site on last day (Kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(

g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c(X). | Amt of Reduction (Kg)

Hazardous Waste Stream Report - Back JAN 06, 1

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-000

Waste name.
URANIUM HEXAFLUORIDE | Waste stream 47

12. Chemical Characteristics. | Concentration units. For EP toxic wastes, indicate PPM.

| pH | Flash point | Reactive code |
|---|---|---|
| <2.5 | | |

Major and hazardous consituents.

| | lower | upper |
|---|---|---|
| A URANIUM HEXAFLUORIDE | 100V | 100V |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

Below is for department use only.

| 17. Date rcvd | Complete? Yes | Complete? No | Test results? Yes | Test results? No | Reasonable? Yes | Reasonable? No | Follow-up Yes | Follow-up No | Initials |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Repor |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front DEC 31, 1

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE | EPA ID CODE TN0 89-009-000

2. Waste name.
METHYL ETHYL KETONE PEROXIDE | Waste stream : 48

3. Give years waste generated | Date stopped | Frequency of generation
1984 | 12/31/84 | ACCIDENTAL

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES | E | D003 | 2819

5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb.
LIQUID, WATER BASED | 000.0 | | 0010.000 | | |

6. Generation rates in kilograms.
Monthly maximum | Annual average | Max. amount stored | Max. days store

7. DOT shipping name | DOT hazard class | DOT ID code
WASTE METHYL ETHYL KETONE PEROXIDE | ORGANIC PEROXIDE | UN2127

8. Describe generation process.
MATERIAL WAS A ONE-TIME DISPOSAL. THE SHELF LIFE HAD BEEN EXCEEDED REQUIRING ONSITE DISPOSAL. THIS WAS A PURE WASTE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 909 kg | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 909 kg | Y (N) | T-07 |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(

g. Other - explain below: . . . . . g(X) Purchase only quanity required

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c(X). | Amt of Reduction (kg)

Hazardous Waste Stream Report - Back DEC 31,

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE | EPA ID COD
TN0 89-009-0C

Waste name.
METHYL ETHYL KETONE PEROXIDE * Waste stream
48

12. Chemical Characteristics. | Concentration units. For EP toxic
pH | Flash point | Reactive code | wastes, indicate PPM.
>100C

Major and hazardous consituents. | lower | upper
A METHYL ETHYL KETONE PEROXIDE 100 100

13. If this waste is recovered, reclaimed, recycled, or reused, describe ho

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========
Below is for department use only.

| 17. Date rcvd | Complete? Yes | No | Test results? Yes | No | Reasonable? Yes | No | Follow-up Yes | No | Initials |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

Status| Not hazardous (1); Demonstrated not hazardous (2); Status Repo
Small generator (3); Resource recovery (4); 8 Y N
Partial exemption (5);Hazardous (6);
Accidental (7); No longer generated (8);
Variance granted (9); Conditionally exempt (A);
Mixed radiological wastse (R).

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 198

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

2. Waste name.
CHLORINE TRIFLUORIDE | Waste stream II 49

3. Give years waste generated | Date stopped | Frequency of generation
1944- /00/00 ACCIDENTAL

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| A | D002 | 2819

5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb.
GAS | .0 | | .000 | .0 | .0

6. Generation rates in kilograms.
Monthly maximum | Annual average | Max. amount stored | Max. days stored
25 180

7. DOT shipping name | DOT hazard class | DOT ID code
WASTE CHLORINE TRIFLUORIDE OXIDIZER 1749

8. Describe generation process.
WASTE GENERATED FROM LABORATORY AND RESEARCH FACILITIES. THIS IS A PURE WASTE. WASTE IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE. WASTE IS GENERATED DUE TO DAMAGED CYLINDER.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (Kg) | Amount on site on first day (Kg) | Amount on site on last day (Kg) |
|---|---|---|---|
| 1988 | 68 kg | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 68 kg | (Y) N | S-05 cylinders |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(X)
g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c(X). | Amt of Reduction (Kg)

Hazardous Waste Stream Report - Back JAN 06, 19:

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

Waste name.
CHLORINE TRIFLUORIDE | Waste stream I: 49

12. Chemical Characteristics. | Concentration units. For EP toxic wastes, indicate PPM.

| pH | Flash point | Reactive code |
|---|---|---|
| <2.5 | | |

Major and hazardous consituents.

| | lower | upper |
|---|---|---|
| A CHLORINE TRIFLUORIDE | 100 | 100 |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

Below is for department use only.

| 17. Date rcvd | Complete? Yes | Complete? No | Test results? Yes | Test results? No | Reasonable? Yes | Reasonable? No | Follow-up Yes | Follow-up No | Initials |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 1

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-000

2. Waste name.
K-1232 SPENT CARBON FILTER AGENT | Waste stream 52

3. Give years waste generated | Date stopped | Frequency of generation
1985- /00/00 CONTINUOUS

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| F |F001 | 2819

| 5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| OTHER SOLID | 100.0 | | 5.000 | .0 | .0 |

6. Generation rates in Kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days store |
|---|---|---|---|
| 18,000 | 21,023 | 21,023 | |

7. DOT shipping name | DOT hazard class | DOT ID code

8. Describe generation process.
WASTE GENERATED FROM CARBON COLUMN CHANGEOUT. THIS IS A MIXED WASTE.

** ANNUAL REPORT SECTION ** LINES 9-11

| 9. Report Year | Amount generated during year (Kg) | Amount on site on first day (Kg) | Amount on site on last day (Kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(

g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (Kg)

Hazardous Waste Stream Report - Back JAN 06, 19

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE
TN0 89-009-0000

Waste name.
K-1232 SPENT CARBON FILTER AGENT | Waste stream I
52

12. Chemical Characteristics. | Concentration units. For EP toxic wastes, indicate PPM.
pH | Flash point | Reactive code | % WEIGHT

Major and hazardous consituents.

| | lower | upper |
|---|---|---|
| A CARBON | 80 | 95 |
| B VARIOUS HALOGENATED SOLVENTS | 5 | 20 |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

Below is for department use only.

| 17. Date rcvd | Complete? Yes | Complete? No | Test results? Yes | Test results? No | Reasonable? Yes | Reasonable? No | Follow-up Yes | Follow-up No | Initials |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front DEC 31,

See full instructions for form PH-2022 for additional information and codes

1. Organization's name.
UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE | EPA ID CC TN0 89-009-0

2. Waste name.
FLAMMABLE SOLID LAB PACKS | Waste strea 54

3. Give years waste generated | Date stopped | Frequency of generatio
1944 / / VARIOUS

4. Mark all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f)
CODES| A | EPA waste codes | SIC
D001 | 2819

5.

| Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| OTHER SOLID | 100.0 | | 0000.000 | | |

6. Generation rates in kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days st |
|---|---|---|---|
| 30 lbs | 350 lbs | 350 lbs | 360 |

7.

| DOT shipping name | DOT hazard class | DOT ID c |
|---|---|---|
| WASTE FLAMMABLE SOLIDS, N.O.S. | FLAMMABLE SOLID | 1325 |

8. Describe generation process.
LAB PACK IS MADE UP OF SMALL QUANTITIES OF VARIOUS FLAMMABLE SOLIDS GENERATED DURING PLANT OPERATIONS. THIS WAS A PURE WASTE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 332 lbs | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 332 lbs | Y (N) | T-07 |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials
e. Improved operations. . . .
f. No effort. . . . . .

g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c(X). | Amt of Reduction (k

Hazardous Waste Stream Report - Back DEC 31,

See full instructions for form PH-202, for additional information and codes

Organization's name.
UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE | EPA ID CO
TN0 89-009-0

Waste name.
FLAMMABLE SOLID LAB PACKS * Waste strea
54

12. Chemical Characteristics.
pH | Flash point | Reactive code | Concentration units. For EP toxic wastes, indicate ~~PPM.~~ percent

Major and hazardous consituents.
Metal powders | lower | uppe
0 100

13. If this waste is recovered, reclaimed, recycled, or reused, describe h

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========
Below is for department use only.
17. Date rcvd Complete? Test results? Reasonable? Follow-up Initial:
| Yes No | Yes No | Yes No | Yes No

Status| Not hazardous (1); Demonstrated not hazardous (2); Status Rep
Small generator (3); Resource recovery (4); 6 Y
Partial exemption (5);Hazardous (6);
Accidental (7); No longer generated (8);
Variance granted (9); Conditionally exempt (A);
Mixed radiological wastse (R).

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 1

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-000

2. Waste name.
HYDROCHLORIC ACID W/STANNOUS CHLORIDE | Waste stream 55

3. Give years waste generated | Date stopped | Frequency of generation
1985- /00/00 VARIOUS

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| C |D002 | 2819

5. Physical form |% Solid|% Water|Lb./gal. | Chlorine PPM | BTU/lb.
GRANULAR SOLID | .0| | 10.000 | .0 | .0

6. Generation rates in kilograms.
Monthly maximum | Annual average | Max. amount stored | Max. days store
227 227 227 300

7. DOT shipping name | DOT hazard class | DOT ID code
WASTE CORROSIVE LIQUIDS, N.O.S. CORROSIVE 1760

8. Describe generation process.
WASTE GENERATED DURING OPERATION OF PLATING LABORATORY. THIS WAS A PURE WASTE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (Kg) | Amount on site on first day (Kg) | Amount on site on last day (Kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(

g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (Kg)

Hazardous Waste Stream Report - Back JAN 06, 19

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

Waste name.
HYDROCHLORIC ACID W/STANNOUS CHLORIDE | Waste stream I 55

12. Chemical Characteristics. | Concentration units. For EP toxic wastes, indicate PPM.

| pH | Flash point | Reactive code |
|---|---|---|
| <1.0 | | |

Major and hazardous consituents.

| | lower | upper |
|---|---|---|
| A HYDROCHLORIC ACID | 30 | 30 |
| B WATER | 69 | 69 |
| C STANNOUS CHLORIDE | 1 | 1 |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========

Below is for department use only.

| 17. Date rcvd | Complete? Yes | Complete? No | Test results? Yes | Test results? No | Reasonable? Yes | Reasonable? No | Follow-up Yes | Follow-up No | Initials |
|---|---|---|---|---|---|---|---|---|---|

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 19

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0001

2. Waste name.
SODIUM HYDROXIDE SOLUTION | Waste stream 56

3. Give years waste generated | Date stopped | Frequency of generation
1960- /00/00 VARIOUS

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| C | D002 | 2819

5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb.
LIQUID, WATER BASED | 15.0 | | 12.000 | .0 | .0

6. Generation rates in kilograms.
Monthly maximum | Annual average | Max. amount stored | Max. days store
1,636 | 1,636 | 1,700 | 200

7. DOT shipping name | DOT hazard class | DOT ID code
WASTE SODIUM HYDROXIDE SOLUTION | CORROSIVE | 1613

8. Describe generation process.
METALS PLATING LABORATORY OPERATIONS THIS WAS A PURE WASTE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (Kg) | Amount on site on first day (Kg) | Amount on site on last day (Kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(

g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (Kg)

Hazardous Waste Stream Report - Back JAN 06, 1

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-000

Waste name.
SODIUM HYDROXIDE SOLUTION | Waste stream 56

12. Chemical Characteristics. | Concentration units. For EP toxic wastes, indicate PPM.
pH | Flash point | Reactive code | % VOLUME
>12.

Major and hazardous consituents.

| | lower | upper |
|---|---|---|
| A SODIUM HYDROXIDE | 50 | 50 |
| B WATER | 50 | 50 |
| C COPPER | TRACE | TRACE |
| D FORMALDEHYDE | TRACE | TRACE |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how

16. I certify that this information is true, accurate and complete.
SIGNATURE | (Generator or authorized representative), title and date.

Below is for department use only.

| 17. Date rcvd | Complete? Yes | Complete? No | Test results? Yes | Test results? No | Reasonable? Yes | Reasonable? No | Follow-up Yes | Follow-up No | Initials |
|---|---|---|---|---|---|---|---|---|---|

Status | Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 1

See full instructions for form PK-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-000

2. Waste name.
LAC 4100 | Waste stream 57

3. Give years waste generated | Date stopped | Frequency of generation
1985- /00/00 VARIOUS

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| BC |D002D008 | 2819

| 5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| LIQUID, WATER BASED | 5.0 | | 9.000 | .0 | .0 |

6. Generation rates in kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days stor |
|---|---|---|---|
| 25 | 194 | 300 | 600 |

7. DOT shipping name | DOT hazard class | DOT ID cod
WASTE CORROSIVE LIQUIDS, N.O.S. CORROSIVE 1760

8. Describe generation process.
PRINTED CIRCUIT BOARD MANUFACTURING PROCESS. THIS IS A PUREWASTE.

** ANNUAL REPORT SECTION ** LINES 9-11

| 9. Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(

g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (kg)

Hazardous Waste Stream Report - Back JAN 06,

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODI
TN0 89-009-00(

Waste name.
LAC 4100 | Waste stream
57

12. Chemical Characteristics. | Concentration units. For EP toxic
pH | Flash point | Reactive code | wastes, indicate PPM.
2.9 PPM

Major and hazardous consituents.

| | lower | upper |
|---|---|---|
| A LEAD | 5 | 6.3 |
| B WATER | 98.8 | 98.8 |
| C ORGANIC ACID | 1.2 | 1.2 |

13. If this waste is recovered, reclaimed, recycled, or reused, describe hou

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========

Below is for department use only.

| 17. Date rcvd | Complete? Yes | No | Test results? Yes | No | Reasonable? Yes | No | Follow-up Yes | No | Initials |
|---|---|---|---|---|---|---|---|---|---|

Status| Not hazardous (1); Demonstrated not hazardous (2); Status Repor
Small generator (3); Resource recovery (4); 6 Y
Partial exemption (5);Hazardous (6);
Accidental (7); No longer generated (8); Variance granted (9); Condi
tionally exempt (A); Mixed radiological wastse (R).

18. Comments.

Hazardous Waste Stream Report - Front DEC 31, 1

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE | EPA ID CODE TN0 89-009-000

2. Waste name.
HAZARDOUS WASTE LIQUID | Waste stream 60

3. Give years waste generated | Date stopped | Frequency of generation
1985 / /

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES | F | F002 | 2819

5.

| Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| LIQUID, OTHER BASED | 000.0 | | 0007.000 | | |

6. Generation rates in kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days stor |
|---|---|---|---|

7.

| DOT shipping name | DOT hazard class | DOT ID cod |
|---|---|---|
| WASTE HAZARDOUS WASTE, LIQUIDS, N.O.S. | O R M - E | 9189 |

8. Describe generation process.
SOLVENT USED FOR CLEANING CENTRIFUGE MANUFACTURING PARTS. THIS WAS A PUR WASTE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| | 570 kg | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 570 kg | Y (N) | T-07, T-21 |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(
g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c(X). | Amt of Reduction (kg)

Hazardous Waste Stream Report - Back DEC 31, 19

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE | EPA ID CODE TN0 89-009-0004

Waste name.
HAZARDOUS WASTE LIQUID * Waste stream I 60

12. Chemical Characteristics. | Concentration units. For EP toxic wastes, indicate PPM.
pH | Flash point | Reactive code |
>140

Major and hazardous consituents.

| | lower | upper |
|---|---|---|
| A METHYLENE CHLORIDE | 10 | 80 |
| B FREON | 10 | 80 |
| C ACETONE | 0 | 5 |
| D METHYL ETHYL KETONE | 0 | 5 |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

Below is for department use only.

| 17. Date rcvd | Complete? Yes | Complete? No | Test results? Yes | Test results? No | Reasonable? Yes | Reasonable? No | Follow-up Yes | Follow-up No | Initials |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report Y | Report N |
|---|---|---|
| 6 | | |

18. Comments.

Hazardous Waste Stream Report - Front DEC 31, 1

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE | EPA ID CODE TN0 89-009-000

2. Waste name.
WASTE METHYLENE CHLORIDE | Waste stream 61

3. Give years waste generated | Date stopped | Frequency of generation
1985

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| F
|F002 | 2819

5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb.
LIQUID, OTHER BASED | 001.0 | | 0011.000 | | |

6. Generation rates in kilograms.
Monthly maximum | Annual average | Max. amount stored | Max. days stor.

7. DOT shipping name
WASTE METHYLENE CHLORIDE | DOT hazard class | DOT ID cod.
FLAMMABLE LIQUID 1593

8. Describe generation process.
SOLVENT USED FOR CLEANING CENTRIFUGE MANUFACTURING EQUIPMENT. THIS WAS A PURE WASTE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 1227 kg | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 1227 kg | Y (N) | T-07 |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(

g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c(X). | Amt of Reduction (kg)

Hazardous Waste Stream Report - Back DEC 31,

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPARTMENT OF ENERGY, K-25 SITE | EPA ID COD
TN0 89-009-00

Waste name.
WASTE METHYLENE CHLORIDE * Waste stream
61

12. Chemical Characteristics. | Concentration units. For EP toxic
pH | Flash point | Reactive code | wastes, indicate PPM.
>140 % VOLUME

Major and hazardous consituents. | lower | upper
A METHYLENE CHLORIDE 1 100
B WATER 1 99

13. If this waste is recovered, reclaimed, recycled, or reused, describe ho

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========
Below is for department use only.

| 17. Date rcvd | Complete? Yes | No | Test results? Yes | No | Reasonable? Yes | No | Follow-up Yes | No | Initials |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

Status| Not hazardous (1); Demonstrated not hazardous (2); Status Repo
Small generator (3); Resource recovery (4); 6 Y N
Partial exemption (5);Hazardous (6);
Accidental (7); No longer generated (8);
Variance granted (9); Conditionally exempt (A);
Mixed radiological wastse (R).

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 1

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-000

2. Waste name.
CENTRIFUGE EPOXIES/RESINS | Waste stream 62

| 3. Give years waste generated | Date stopped | Frequency of generation |
|---|---|---|
| 1970-1985 | /00/00 | VARIOUS |

| 4. Mark all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) | EPA waste codes | SIC |
|---|---|---|
| CODES A | D001 | 2819 |

| 5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| LIQUID, OTHER BASED | .0 | | 8.000 | .0 | .0 |

6. Generation rates in kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days store |
|---|---|---|---|
| 727 | 727 | 727 | 5 |

| 7. DOT shipping name | DOT hazard class | DOT ID code |
|---|---|---|
| WASTE FLAMMABLE LIQUIDS, N.O.S. | FLAMMABLE LIQUID | 1993 |

8. Describe generation process.
CENTRIFUGE RESEARCH AND DEVELOPMENT OPERATIONS. THIS WAS A PURE WASTE.

** ANNUAL REPORT SECTION ** LINES 9-11

| 9. Report Year | Amount generated during year (Kg) | Amount on site on first day (Kg) | Amount on site on last day (Kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(

g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c(X). | Amt of Reduction (Kg)

Hazardous Waste Stream Report - Back JAN 06, 1

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-000

Waste name.
CENTRIFUGE EPOXIES/RESINS | Waste stream 62

12. Chemical Characteristics. | Concentration units. For EP toxic wastes, indicate PPM.
pH | Flash point | Reactive code | <140
Major and hazardous consituents. | lower | upper

13. If this waste is recovered, reclaimed, recycled, or reused, describe how

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

Below is for department use only.

| 17. Date rcvd | Complete? Yes | No | Test results? Yes | No | Reasonable? Yes | No | Follow-up Yes | No | Initials |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Repor: |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06,

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID COD: TN0 89-009-00(

2. Waste name.
K-1232 CENTRIFUGED SLUDGE | Waste stream 64

3. Give years waste generated | Date stopped | Frequency of generation
1985- /00/00 CONTINUOUS

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| F | F006 | 2819

| 5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| SLUDGE, WATER BASED | 70.0 | | 10.000 | .0 | .0 |

6. Generation rates in Kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days stor |
|---|---|---|---|
| ~~45,026~~ 200 lbs | ~~90,109~~ 2400 lbs | ~~190,481~~ 192,481 | 750 |

7. DOT shipping name | DOT hazard class | DOT ID cod

8. Describe generation process.
CENTRIFUGE CAKE GENERATED FROM TREATMENT OF ELECTROPLATING WASTE. THIS I
A MIXED WASTE.

** ANNUAL REPORT SECTION ** LINES 9-11

| 9. Report Year | Amount generated during year (Kg) | Amount on site on first day (Kg) | Amount on site on last day (Kg) |
|---|---|---|---|
| 1988 | 2000 lbs | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 2000 lbs | (Y) N | S-01 |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d
e. Improved operations. . . . e
f. No effort. . . . . f

g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (Kg)

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-000

Waste name.
K-1232 CENTRIFUGED SLUDGE | Waste stream 64

12. Chemical Characteristics.
pH | Flash point | Reactive code |

Concentration units. For EP toxic wastes, indicate PPM.
% VOLUME

| Major and hazardous consituents. | lower | upper |
|---|---|---|
| A LIME | 50 | 90 |
| B WATER | 5 | 45 |
| C VARIOUS HALOGENATED SOLVENTS | 1 | 5 |
| D EP TOXIC/OTHERWISE TOXIC SUBSTANCES | | TRACE |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how

16. I certify that this information is true, accurate and complete.
SIGNATURE | (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========

Below is for department use only.

| 17. Date rcvd | Complete? Yes | Complete? No | Test results? Yes | Test results? No | Reasonable? Yes | Reasonable? No | Follow-up Yes | Follow-up No | Initials |
|---|---|---|---|---|---|---|---|---|---|

Status | Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Repor |
|---|---|
| R | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 19

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

2. Waste name.
LABORATORY ACIDS (BMP) | Waste stream I 70

3. Give years waste generated 1986- | Date stopped /00/00 | Frequency of generation CONTINUOUS

4. Mark all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f)

| CODES | EPA waste codes | SIC |
|---|---|---|
| BC | D002D006D007 D008D009 | 2819 |

5.

| Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| LIQUID, WATER BASED | 3.0 | | 11.000 8.3 | .0 | .0 |

6. Generation rates in kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days store |
|---|---|---|---|
| 1,250 2000 | ~~12,500~~ 23,000 | 1,250 2000 | 600 1000 |

7. DOT shipping name | DOT hazard class | DOT ID code
NOT TRANSPORTED OFF-SITE

8. Describe generation process.
THIS WASTE STREAM IS COLLECTED AS PART OF THE BEST MANAGEMENT PLAN (BMP). THE STREAM CONSIST OF WASTE SAMPLES AND REAGENTS USED IN THE ANALYSES OF SAMPLES. THIS IS A MIXED WASTE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 22,913 kg | 0 | 2444 kg |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 20,469 kg | (Y) N | S-01 |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(X)
g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c(X). | Amt of Reduction (kg)

Hazardous Waste Stream Report - Back JAN 06, 19

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-000

Waste name.
LABORATORY ACIDS (BMP) | Waste stream 70

12. Chemical Characteristics.
pH | Flash point | Reactive code | Concentration units. For EP toxic wastes, indicate PPM.

| Major and hazardous consituents. | lower | upper |
|---|---|---|
| A VARIOUS ACIDS | 99 | 99.9 |
| B CADMIUM | <1 | 16 |
| C CHROMIUM | <5 | 790 |
| D LEAD | <5 | 13 |
| E MERCURY | <.2 | 20 |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE | (Generator or authorized representative), title and date.

Below is for department use only.

| 17. Date rcvd | Complete? Yes | Complete? No | Test results? Yes | Test results? No | Reasonable? Yes | Reasonable? No | Follow-up Yes | Follow-up No | Initials |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

Status | Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 198

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

2. Waste name.
LABORATORY BASES (BMP) | Waste stream ID 71

3. Give years waste generated | Date stopped | Frequency of generation
1986- /00/00 CONTINUOUS

4. Mark all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f)

| CODES | EPA waste codes | SIC |
|---|---|---|
| BC | D002D006D007 D008D009 | 2819 |

5.

| Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| LIQUID, WATER BASED | 5.0 | | 11.000 | .0 | .0 |

6. Generation rates in kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days stored |
|---|---|---|---|
| 500 | 2,500 | 1,000 | 600 |

7. DOT shipping name | DOT hazard class | DOT ID code

8. Describe generation process.
THIS WASTE STREAM IS COLLECTED AS PART OF THE BEST MANAGEMENT PLAN (BMP). THE STREAM CONSIST OF WASTE SAMPLES AND REAGENTS USED IN THE ANALYSES OF SAMPLES. THIS IS A MIXED WASTE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 3572 lbs | 0 lbs | 376 lbs |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 3196 lbs | (Y) N | S-01 |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(X)

g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c(X). | Amt of Reduction (kg)

Hazardous Waste Stream Report - Back JAN 06, 198

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

Waste name.
LABORATORY BASES (BMP) | Waste stream II 71

12. Chemical Characteristics. | Concentration units. For EP toxic
pH | Flash point | Reactive code | wastes, indicate PPM.

| Major and hazardous consituents. | lower | upper |
|---|---|---|
| A | VARIOUS BASES | 98 | 99.9 |
| B | CADMIUM | <1 | 1.7 |
| C | CHROMIUM | <5 | 32 |
| D | CYANIDE | <5 | 120 |
| E | LEAD | <5 | 5.7 |
| F | MERCURY | <.2 | 5 |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE | (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========
Below is for department use only.

| 17. Date rcvd | Complete? Yes | No | Test results? Yes | No | Reasonable? Yes | No | Follow-up Yes | No | Initials |
|---|---|---|---|---|---|---|---|---|---|

Status | Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 198

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

2. Waste name.
LABORATORY ORGANICS (BMP) | Waste stream ID 72

3. Give years waste generated | Date stopped | Frequency of generation
1986- /00/00 CONTINUOUS

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| AB | D001D006D007 D009 | 2819

5.

| Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| LIQUID, OTHER BASED | 5.0 | | 11.000 | .0 | .0 |

6. Generation rates in kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days stored |
|---|---|---|---|
| 500 | 2,500 | 350 | 75 |

7. DOT shipping name | DOT hazard class | DOT ID code

8. Describe generation process.
THIS WASTE STREAM IS COLLECTED AS PART OF THE BEST MANAGEMENT PLAN (BMP). THE STREAM CONSIST OF WASTE SAMPLES AND REAGENTS USED IN THE ANALYSES OF SAMPLES. THIS IS A MIXED WASTE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 5126 lbs | 0 | 546 lbs |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 4580 lbs | (Y) N | S-01 |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d( )
e. Improved operations. . . . e( )
f. No effort. . . . . f(X)
g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c(X). | Amt of Reduction (kg)

Hazardous Waste Stream Report - Back JAN 06, 1989

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

Waste name.
LABORATORY ORGANICS (BMP) | Waste stream ID 72

12. Chemical Characteristics.
pH | Flash point | Reactive code | Concentration units. For EP toxic wastes, indicate PPM.

Major and hazardous consituents.

| | lower | upper |
|---|---|---|
| A VARIOUS ORGANICS | 98 | 99.9 |
| B CADMIUM | <1 | 1.7 |
| C CHROMIUM | <5 | 8.7 |
| D MERCURY | <.2 | .446 |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE | (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========
Below is for department use only.

| 17. Date rcvd | Complete? Yes | Complete? No | Test results? Yes | Test results? No | Reasonable? Yes | Reasonable? No | Follow-up Yes | Follow-up No | Initials |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

Status | Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 19:

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

2. Waste name.
LABORATORY SLUDGES (BMP) | Waste stream I: 73

3. Give years waste generated | Date stopped | Frequency of generation
1986- /00/00 CONTINUOUS

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| F | F006 | 2819

5.

| Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| SLUDGE, WATER BASED | 90.0 | | .000 | .0 | .0 |

6. Generation rates in kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days stored |
|---|---|---|---|
| 80 kg ~~20~~ | 1000 kg ~~250~~ | 1000 kg ~~300~~ | 360 ~~75~~ |

7. DOT shipping name | DOT hazard class | DOT ID code

8. Describe generation process. Solid waste from laboratory analysis *

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 940 kg | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 940 kg | (Y) N | S-01 |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(X)
g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c(X). | Amt of Reduction (kg)

Hazardous Waste Stream Report - Back JAN 06, 19

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

Waste name.
LABORATORY SLUDGES (BMP) | Waste stream I 73

12. Chemical Characteristics. | Concentration units. For EP toxic wastes, indicate PPM.
pH | Flash point | Reactive code |

Major and hazardous consituents. | lower | upper

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========
Below is for department use only.

| 17. Date rcvd | Complete? Yes | No | Test results? Yes | No | Reasonable? Yes | No | Follow-up Yes | No | Initials |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| R | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 1

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-000

2. Waste name.
SILVER RECOVERY | Waste stream 74

| 3. Give years waste generated | Date stopped | Frequency of generation |
|---|---|---|
| 1983- | /00/00 | VARIOUS |

| 4. Mark all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) | EPA waste codes | SIC |
|---|---|---|
| CODES \| B | D011 | 2819 |

| 5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| LIQUID, OTHER BASED | .0 | | .000 | .0 | .0 |

6. Generation rates in kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days store |
|---|---|---|---|
| 620 | 7,337 | 10,000 | 400 |

| 7. DOT shipping name | DOT hazard class | DOT ID code |
|---|---|---|
| | | |

8. Describe generation process.
PHOTOGRAPHIC /X-RAY DEVELOPMENT

** ANNUAL REPORT SECTION ** LINES 9-11

| 9. Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 10,364 lbs | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 10,364 lbs | (Y) N | S-01 |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(

g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c(X). | Amt of Reduction (kg)

Hazardous Waste Stream Report - Back JAN 06, 19:

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

Waste name.
SILVER RECOVERY | Waste stream I 74

12. Chemical Characteristics.
pH | Flash point | Reactive code | Concentration units. For EP toxic wastes, indicate PPM.

Major and hazardous consituents.

| | lower | upper |
|---|---|---|
| A SILVER | 100 | |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

Below is for department use only.

| 17. Date rcvd | Complete? Yes | Complete? No | Test results? Yes | Test results? No | Reasonable? Yes | Reasonable? No | Follow-up Yes | Follow-up No | Initials |
|---|---|---|---|---|---|---|---|---|---|

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 19

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

2. Waste name.
BENZOYL PEROXIDE | Waste stream I 75

3. Give years waste generated | Date stopped | Frequency of generation
1987- /00/00 VARIOUS

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| E |D003 | 2819

5.

| Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| LIQUID, OTHER BASED | .0 | | 10.800 | .0 | .0 |

6. Generation rates in kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days store |
|---|---|---|---|
| 1 | 1 | 1 | 500 |

7. DOT shipping name | DOT hazard class | DOT ID code
BENZOYL PEROXIDE (30%-52%) WITH INERT SOLIDS UN2809

8. Describe generation process.
MATERIAL DISCOVERED DURING CLEAN UP OF LABORATORY AREAS. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(

g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (kg)

Hazardous Waste Stream Report - Back JAN 06, 19

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

Waste name.
BENZOYL PEROXIDE | Waste stream I 75

12. Chemical Characteristics. | Concentration units. For EP toxic wastes, indicate PPM.
pH | Flash point | Reactive code |

Major and hazardous consituents.
A BENZOYL PEROXIDE | lower 100 | upper |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

Below is for department use only.

| 17. Date rcvd | Complete? Yes | No | Test results? Yes | No | Reasonable? Yes | No | Follow-up Yes | No | Initials |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 19

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

2. Waste name.
SODIUM PEROXIDE | Waste stream I 76

3. Give years waste generated | Date stopped | Frequency of generation
1987- /00/00 VARIOUS

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| E | D003 | 2819

| 5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| LIQUID, OTHER BASED | 14.0 | | .000 | .0 | .0 |

6. Generation rates in kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days store |
|---|---|---|---|
| 1 | 1 | 1 | 500 |

7. DOT shipping name | DOT hazard class | DOT ID code
SODIUM PEROXIDE | OXIDIZER | UN1504

8. Describe generation process.
MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.

** ANNUAL REPORT SECTION ** LINES 9-11

| 9. Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(X)

g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c(X). | Amt of Reduction (kg)

Hazardous Waste Stream Report - Back JAN 06, 19:

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

Waste name.
SODIUM PEROXIDE | Waste stream I: 76

12. Chemical Characteristics. | Concentration units. For EP toxic
pH | Flash point | Reactive code | wastes, indicate PPM.

Major and hazardous consituents.
A SODIUM PEROXIDE | lower 100 | upper |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

Below is for department use only.

| 17. Date rcvd | Complete? Yes | No | Test results? Yes | No | Reasonable? Yes | No | Follow-up Yes | No | Initials |
|---|---|---|---|---|---|---|---|---|---|

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 19:

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

2. Waste name.
HYDROGEN PEROXIDE | Waste stream I: 77

| 3. Give years waste generated | Date stopped | Frequency of generation |
|---|---|---|
| 1987- | /00/00 | VARIOUS |

| 4. Mark all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f) | EPA waste codes | SIC |
|---|---|---|
| CODES\| E | D003 | 2819 |

| 5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| LIQUID, OTHER BASED | .0 | | 8.200 | .0 | .0 |

6. Generation rates in kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days stored |
|---|---|---|---|
| 1 | 1 | 1 | 500 |

| 7. DOT shipping name | DOT hazard class | DOT ID code |
|---|---|---|
| HYDROGEN PEROXIDE (AQUEOUS SOLUTION) >8% <20% | OXIDIZER | UN2014 |

8. Describe generation process.
MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.

** ANNUAL REPORT SECTION ** LINES 9-11

| 9. Report Year | Amount generated during year (Kg) | Amount on site on first day (Kg) | Amount on site on last day (Kg) |
|---|---|---|---|
| 1988 | 21 lbs | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 21 lbs | Y (N) | T-24 |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(X

g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c(X). | Amt of Reduction (Kg)

Hazardous Waste Stream Report - Back JAN 06, 19

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 S9-009-0004

Waste name.
HYDROGEN PEROXIDE | Waste stream I 77

12. Chemical Characteristics.
pH | Flash point | Reactive code D003 | Concentration units. For EP toxic wastes, indicate ~~PPM~~. percent

Major and hazardous consituents.

| | lower | upper |
|---|---|---|
| A HYDROGEN PEROXIDE | ~~100~~ 8 | 20 |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE (Generator or authorized representative), title and date.

Below is for department use only.

| 17. Date rcvd | Complete? Yes | Complete? No | Test results? Yes | Test results? No | Reasonable? Yes | Reasonable? No | Follow-up Yes | Follow-up No | Initials |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 19.

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

2. Waste name.
PHOSPHOROUS | Waste stream I: 79

3. Give years waste generated | Date stopped | Frequency of generation
1987- /00/00 VARIOUS

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| AE | D001D003 | 2819

| 5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| OTHER SOLID | 100.0 | | .000 | .0 | .0 |

6. Generation rates in kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days store |
|---|---|---|---|
| 1 | 1 | 1 | 500 |

7. DOT shipping name | DOT hazard class | DOT ID code
PHOSPHOROUS,WHITE OR YELLOW, FLAMMABLE SOLID UN1381

8. Describe generation process.
MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED ON STORED AT K-25 SITE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(X)

g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c(X). | Amt of Reduction (kg)

Hazardous Waste Stream Report - Back JAN 06, 19

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 S9-009-0004

Waste name.
PHOSPHOROUS | Waste stream I 79

12. Chemical Characteristics.
pH | Flash point | Reactive code | Concentration units. For EP toxic wastes, indicate PPM.

Major and hazardous consituents.
A PHOSPHOROUS | lower 100 | upper |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========

Below is for department use only.

| 17. Date rcvd | Complete? Yes | No | Test results? Yes | No | Reasonable? Yes | No | Follow-up Yes | No | Initials |
|---|---|---|---|---|---|---|---|---|---|

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R). | Status 6 | Report Y

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 19

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

2. Waste name.
METALLIC MERCURY | Waste stream I 82

3. Give years waste generated | Date stopped | Frequency of generation
1987- /00/00 VARIOUS

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| B | D009. | 2819

5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb.
OTHER SOLID | .0 | | .000 | .0 | .0

6. Generation rates in kilograms.
Monthly maximum | Annual average | Max. amount stored | Max. days store
6 6 6 500

7. DOT shipping name | DOT hazard class | DOT ID code
WASTE MERCURY METALLIC O R M - E NA2809

8. Describe generation process.
MERCURY REMOVED FROM INSTRUMENTATION. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(X)
g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c(X). | Amt of Reduction (kg)

Hazardous Waste Stream Report - Back JAN 06, 19

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-000

Waste name.
METALLIC MERCURY | Waste stream I 82

12. Chemical Characteristics.
pH | Flash point | Reactive code | Concentration units. For EP toxic wastes, indicate PPM.

Major and hazardous consituents.
A METALLIC MERCURY | lower 100 | upper

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE | (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========

Below is for department use only.

17. Date rcvd | Complete? Yes No | Test results? Yes No | Reasonable? Yes No | Follow-up Yes No | Initials

Status | Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

Status .6 | Report Y

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 198

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

2. Waste name.
THIOACETAMINE | Waste stream ID 83

3. Give years waste generated | Date stopped | Frequency of generation
1987- /00/00 VARIOUS

4. Mark all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f)

| CODES | F | EPA waste codes | SIC |
|---|---|---|---|
| | | U128 | 2819 |

5.

| Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| OTHER SOLID | .0 | | .000 | .0 | .0 |

6. Generation rates in kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days stored |
|---|---|---|---|
| | | | 500 |

7.

| DOT shipping name | DOT hazard class | DOT ID code |
|---|---|---|
| HAZARDOUS WASTE, SOLID, N O S, | O R M - E | NA9189 |

8. Describe generation process.
MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d( )
e. Improved operations. . . . e( )
f. No effort. . . . . f(X)
g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c(X). | Amt of Reduction (Kg)

Hazardous Waste Stream Report - Back JAN 06, 198

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

Waste name.
THIOACETAMINE | Waste stream ID 83

12. Chemical Characteristics.
pH | Flash point | Reactive code | Concentration units. For EP toxic wastes, indicate PPM.

Major and hazardous consituents.

| | lower | upper |
|---|---|---|
| A THIOACETAMINE | 100 | |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========

Below is for department use only.

17.

| Date rcvd | Complete? Yes | No | Test results? Yes | No | Reasonable? Yes | No | Follow-up Yes | No | Initials |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 19

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

2. Waste name.
RAGS CONTAMINATED WITH SOLVENTS | Waste stream ID 84

3. Give years waste generated 1987- | Date stopped /00/00 | Frequency of generation VARIOUS

4. Mark all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f)
CODES| F | EPA waste codes F001 | SIC 2819

5.

| Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| OTHER SOLID | .0 | | .000 | .0 | .0 |

6. Generation rates in kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days stored |
|---|---|---|---|
| 2 | 28 | 84 | |

7. DOT shipping name
HAZARDOUS WASTE SOLID N O S | DOT hazard class O R M - E | DOT ID code NA9189

8. Describe generation process.
MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (Kg) | Amount on site on first day (Kg) | Amount on site on last day (Kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d( )
e. Improved operations. . . . e( )
f. No effort. . . . . f(X)
g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c(X). | Amt of Reduction (Kg)

Hazardous Waste Stream Report - Back JAN 06, 1989

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

Waste name.
RAGS CONTAMINATED WITH SOLVENTS | Waste stream ID 84

12. Chemical Characteristics.

| pH | Flash point | Reactive code | Concentration units. For EP toxic wastes. indicate PPM. |
|---|---|---|---|

Major and hazardous consituents.

| | lower | upper |
|---|---|---|
| A TRICHLOROETHANE | 0 | 10% |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========

Below is for department use only.

17.

| Date rcvd | Complete? Yes | Complete? No | Test results? Yes | Test results? No | Reasonable? Yes | Reasonable? No | Follow-up Yes | Follow-up No | Initials |
|---|---|---|---|---|---|---|---|---|---|

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 198

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

2. Waste name.
TSCA INCINERATOR ASH | Waste stream ID 85

3. Give years waste generated | Date stopped | Frequency of generation
1987- /00/00 VARIOUS

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES | F | F001F002 | 2819

5.

| Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| OTHER SOLID | 90.0 | | .000 | .0 | .0 |

6. Generation rates in Kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days stored |
|---|---|---|---|

7. DOT shipping name | DOT hazard class | DOT ID code

8. Describe generation process.
ASH IS GENERATED DURING OPERATION OF K-1435 TSCA/RCRA DUAL PURPOSE INCINERATOR

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 97,041 lbs | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 97,041 lbs | (Y) N | S-01 |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d( )
e. Improved operations. . . . e( )
f. No effort. . . . . f(X)
g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c(X). | Amt of Reduction (kg)

Hazardous Waste Stream Report - Back JAN 06, 198

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

Waste name.
TSCA INCINERATOR ASH | Waste stream ID 85

12. Chemical Characteristics. | Concentration units. For EP toxic wastes, indicate PPM.
pH | Flash point | Reactive code |

Major and hazardous consituents. | lower | upper

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

==========

low is for department use only.

| 17. Date rcvd | Complete? Yes | No | Test results? Yes | No | Reasonable? Yes | No | Follow-up Yes | No | Initials |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| 6 | Y |

18. Comments.

Incinerator ash generated during RCRA and TSCA trial burns

Hazardous Waste Stream Report - Front JAN 06, 19

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

2. Waste name.
METHANOL, PERCHLOROETHYLENE, & ETHYLENE GLYCOL MIXTURE | Waste stream ID 86

3. Give years waste generated | Date stopped | Frequency of generation
1987 /00/00 ACCIDENTAL

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| F
|F003 |

5. Physical form |% Solid|% Water|Lb./gal. | Chlorine PPM | BTU/lb.
LIQUID, OTHER BASED | 9.8| | .000 | .0 | .0

6. Generation rates in kilograms.
Monthly maximum | Annual average | Max. amount stored | Max. days stored
984 984 984

7. DOT shipping name | DOT hazard class | DOT ID code

8. Describe generation process.
THIS WASTE STREAM WAS GENERATED DURING MINI-BURN OF K-1435 INCINERATOR.
THIS WASTE IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(X)
g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c(X). | Amt of Reduction (kg)

Hazardous Waste Stream Report - Back JAN 06, 198

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

Waste name.
METHANOL, PERCHLOROETHYLENE, & ETHYLENE GLYCOL MIXTURE | Waste stream ID 86

12. Chemical Characteristics. | Concentration units. For EP toxic wastes, indicate PPM.
pH | Flash point | Reactive code |

Major and hazardous consituents.

| | lower | upper |
|---|---|---|
| A METHANOL | 5 | 95 |
| B PERCHLOROETHYLENE | 5 | 95 |
| C ETHYLENE GLYCOL | 5 | 95 |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========

Below is for department use only.

| 17. Date rcvd | Complete? Yes | No | Test results? Yes | No | Reasonable? Yes | No | Follow-up Yes | No | Initials |
|---|---|---|---|---|---|---|---|---|---|

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 198

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

2. Waste name.
METHANOL, PERCHLOROETHYLENE, & KEROSENE | Waste stream ID 87

3. Give years waste generated | Date stopped | Frequency of generation
1987 /00/00 ACCIDENTAL

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| F | F003 | 2819

| 5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| LIQUID, OTHER BASED | .0 | | 9.010 | .0 | .0 |

6. Generation rates in kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days stored |
|---|---|---|---|
| 901 | 901 | 901 | |

7. DOT shipping name | DOT hazard class | DOT ID code

8. Describe generation process.
THIS WASTE STREAM WAS GENERATED DURING MINI-BURN FOR K-1435 INCINERATOR. THIS WASTE IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.

** ANNUAL REPORT SECTION ** LINES 9-11

| 9. Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d( )
e. Improved operations. . . . e( )
f. No effort. . . . . f(X)
g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (kg)

Hazardous Waste Stream Report - Back JAN 06, 198

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

Waste name.
METHANOL, PERCHLOROETHYLENE, & KEROSENE | Waste stream ID 87

12. Chemical Characteristics.
pH | Flash point | Reactive code | Concentration units. For EP toxic wastes, indicate PPM.

Major and hazardous consituents.

| | lower | upper |
|---|---|---|
| A METHANOL | 5% | 95% |
| B PERCHLOROETHYLENE | 5% | 95% |
| C KEROSENE | 5% | 95% |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE | (Generator or authorized representative), title and date.

Below is for department use only.

| 17. Date rcvd | Complete? Yes | Complete? No | Test results? Yes | Test results? No | Reasonable? Yes | Reasonable? No | Follow-up Yes | Follow-up No | Initials |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

Status | Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 198

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

2. Waste name.
METHANOL & WATER | Waste stream ID 88

3. Give years waste generated | Date stopped | Frequency of generation
1987 /00/00 ACCIDENTAL

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| F | F003 | 2819

5.

| Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| LIQUID, OTHER BASED | 7.5 | | .000 | .0 | .0 |

6. Generation rates in kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days stored |
|---|---|---|---|
| 1,868 | 1,868 | 1,868 | |

7. DOT shipping name | DOT hazard class | DOT ID code

8. Describe generation process.
THIS WASTE WAS GENERATED DURING THE K-1435 INCINERATOR MINI-BURN. THIS WASTE IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (Kg) | Amount on site on first day (Kg) | Amount on site on last day (Kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d( )
e. Improved operations. . . . e( )
f. No effort. . . . . f(X)
g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (kg)

Hazardous Waste Stream Report - Back JAN 06, 198

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

Waste name.
METHANOL & WATER | Waste stream ID 88

12. Chemical Characteristics.
pH | Flash point | Reactive code | Concentration units. For EP toxic wastes, indicate PPM.

Major and hazardous consituents.

| | lower | upper |
|---|---|---|
| A METHANOL | 5% | 95% |
| B WATER | 5% | 95% |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========

Below is for department use only.

17.

| Date rcvd | Complete? Yes | Complete? No | Test results? Yes | Test results? No | Reasonable? Yes | Reasonable? No | Follow-up Yes | Follow-up No | Initials |
|---|---|---|---|---|---|---|---|---|---|

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 198

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

2. Waste name.
CHLOROBENZENE MIXTURE | Waste stream ID 89

3. Give years waste generated | Date stopped | Frequency of generation
1987- /00/00 ACCIDENTAL

4. Mark all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f)

| CODES | EPA waste codes | SIC |
|---|---|---|
| F | F002 | 2819 |

5.

| Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| LIQUID, OTHER BASED | .0 | | 9.220 | .0 | .0 |

6. Generation rates in kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days stored |
|---|---|---|---|
| 461 | 461 | 461 | |

7. DOT shipping name | DOT hazard class | DOT ID code

8. Describe generation process.
THIS WASTE STREAM WAS GENERATED DURING K-1435 INCINERATOR MINI-BURN. THIS WASTE IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (kg) | Amount on site on first day (Kg) | Amount on site on last day (Kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d( )
e. Improved operations. . . . e( )
f. No effort. . . . . f(X)
g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (kg)

Hazardous Waste Stream Report - Back JAN 06, 198

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

Waste name.
CHLOROBENZENE MIXTURE | Waste stream ID 89

12. Chemical Characteristics.

| pH | Flash point | Reactive code | Concentration units. For EP toxic wastes, indicate PPM. |
|---|---|---|---|

Major and hazardous consituents.

| | lower | upper |
|---|---|---|
| A CHLDROBENZENE | 100 | |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

==========

.low is for department use only.

| 17. Date rcvd | Complete? Yes | No | Test results? Yes | No | Reasonable? Yes | No | Follow-up Yes | No | Initials |
|---|---|---|---|---|---|---|---|---|---|

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 198

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

2. Waste name.
RESIDUAL CARBON TETRACHLORIDE & SILICONE | Waste stream ID 90

3. Give years waste generated | Date stopped | Frequency of generation
1987- /00/00 ACCIDENTAL

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| F
|F001 | 2819

5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb.
LIQUID, OTHER BASED | .0 | | 16.340 | .0 | .0

6. Generation rates in kilograms.
Monthly maximum | Annual average | Max. amount stored | Max. days stored
21,502 21,502 21,502

7. DOT shipping name | DOT hazard class | DOT ID code

8. Describe generation process.
THIS WASTE STREAM WAS GENERATED DURING K-1435 INCINERATOR MINI-BURN. THIS WASTE IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (Kg) | Amount on site on first day (Kg) | Amount on site on last day (Kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d( )
e. Improved operations. . . . e( )
f. No effort. . . . . f(X)
g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (Kg)

Hazardous Waste Stream Report - Back JAN 06, 198

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

Waste name.
RESIDUAL CARBON TETRACHLORIDE & SILICONE | Waste stream ID 90

12. Chemical Characteristics. | Concentration units. For EP toxic
pH | Flash point | Reactive code | Wastes indicate PPM.

Major and hazardous consituents.

| | lower | upper |
|---|---|---|
| A CARBON TETRACHLORIDE | 95% | 100% |
| B SILICONE | 0 | 5 |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE | (Generator or authorized representative), title and date.

Below is for department use only.

| 17. Date rcvd | Complete? Yes | Complete? No | Test results? Yes | Test results? No | Reasonable? Yes | Reasonable? No | Follow-up Yes | Follow-up No | Initials |
|---|---|---|---|---|---|---|---|---|---|

Status | Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 198

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

2. Waste name.
THIOPHENOL (PHENYL MERCAPTAN) | Waste stream ID 91

3. Give years waste generated | Date stopped | Frequency of generation
1987- /00/00 VARIOUS

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| F | P014 | 2819

5.

| Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| LIQUID, OTHER BASED | .0 | | 9.000 | .0 | .0 |

6. Generation rates in Kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days stored |
|---|---|---|---|
| | | | 500 |

7.

| DOT shipping name | DOT hazard class | DOT ID code |
|---|---|---|
| WASTE PHENYL MERCAPTAN | POISON B | UN2337 |

8. Describe generation process.
MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(X)
g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (kg)

Hazardous Waste Stream Report - Back JAN 06, 198

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

Waste name.
THIOPHENOL (PHENYL MERCAPTAN) | Waste stream ID 91

12. Chemical Characteristics. | Concentration units. For EP toxic wastes, indicate PPM.
pH | Flash point | Reactive code |

Major and hazardous consituents.

| | lower | upper |
|---|---|---|
| A THIOPHENOL | 100 | |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE | (Generator or authorized representative), title and date.

Below is for department use only.

| 17. Date rcvd | Complete? Yes | Complete? No | Test results? Yes | Test results? No | Reasonable? Yes | Reasonable? No | Follow-up Yes | Follow-up No | Initials |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

| Status | Status | Report |
|---|---|---|
| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R). | 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 198

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

2. Waste name.
RESIDUAL CHLOROBENZENE | Waste stream ID 92

3. Give years waste generated | Date stopped | Frequency of generation
1987- /00/00 ACCIDENTAL

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES | F
| F002 | 2819

5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb.
LIQUID, OTHER BASED | .0 | | 9.220 | .0 | .0

6. Generation rates in kilograms.
Monthly maximum | Annual average | Max. amount stored | Max. days stored
1,441 1,441 1,441

7. DOT shipping name | DOT hazard class | DOT ID code

8. Describe generation process.
THIS WASTE WAS GENERATED DURING K-1435 INCINERATOR MINI-BURN. THIS WASTE IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d( )
e. Improved operations. . . . e( )
f. No effort. . . . . f(X)
g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (Kg)

Hazardous Waste Stream Report - Back JAN 06, 198

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

Waste name.
RESIDUAL CHLOROBENZENE | Waste stream ID 92

12. Chemical Characteristics.
pH | Flash point | Reactive code | Concentration units. For EP toxic wastes, indicate PPM.

Major and hazardous consituents.
A CHLOROBENZENE | lower 100 | upper

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

low is for department use only.

| 7. Date rcvd | Complete? Yes No | Test results? Yes No | Reasonable? Yes No | Follow-up Yes No | Initials |
|---|---|---|---|---|---|

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 198

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

2. Waste name.
METAL SHAVINGS CONTAINING LEAD | Waste stream ID 93

3. Give years waste generated 1987- | Date stopped /00/00 | Frequency of generation VARIOUS

4. Mark all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f)

| CODES | EPA waste codes | SIC |
|---|---|---|
| B | D008 | 2819 |

5.

| Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| OTHER SOLID | .0 | | .000 | .0 | .0 |

6. Generation rates in kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days stored |
|---|---|---|---|
| 73 | 73 | 73 | |

7. DOT shipping name | DOT hazard class | DOT ID code

8. Describe generation process.
METAL SHAVINGS GENERATED DURING FABRICATION OF METAL PARTS.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d( )
e. Improved operations. . . . e( )
f. No effort. . . . . f(X)
g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (kg)

Hazardous Waste Stream Report - Back JAN 06, 198

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

Waste name.
METAL SHAVINGS CONTAINING LEAD | Waste stream ID 93

12. Chemical Characteristics.
pH | Flash point | Reactive code | Concentration units. For EP toxic wastes, indicate PPM.

Major and hazardous consituents.

| | lower | upper |
|---|---|---|
| A LEAD | 1% | 5% |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

Below is for department use only.

| 17. Date rcvd | Complete? Yes | Complete? No | Test results? Yes | Test results? No | Reasonable? Yes | Reasonable? No | Follow-up Yes | Follow-up No | Initials |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 198

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

2. Waste name.
VANADIUM PENTOXIDE | Waste stream ID 94

3. Give years waste generated 1987- | Date stopped /00/00 | Frequency of generation VARIOUS

4. Mark all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f)

| CODES | F | EPA waste codes | SIC |
|---|---|---|---|
| | | P120 | 2819 |

5.

| Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| OTHER SOLID | .0 | | .000 | .0 | .0 |

6. Generation rates in kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days stored |
|---|---|---|---|
| | | | 500 |

7. DOT shipping name
WASTE VANADIUM PENTOXIDE | DOT hazard class O R M - E | DOT ID code UN2862

8. Describe generation process.
MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d( )
e. Improved operations. . . . e( )
f. No effort. . . . . f(X)
g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (kg)

Hazardous Waste Stream Report - Back JAN 06, 198

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

Waste name.
VANADIUM PENTOXIDE | Waste stream ID 94

12. Chemical Characteristics.
pH | Flash point | Reactive code | Concentration units. For EP toxic wastes, indicate PPM.

Major and hazardous consituents.
A VANADIUM PEROXIDE | lower | upper 100%

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

low is for department use only.

| 17. Date rcvd | Complete? Yes | No | Test results? Yes | No | Reasonable? Yes | No | Follow-up Yes | No | Initials |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 198

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

2. Waste name.
PROPANE | Waste stream ID 95

3. Give years waste generated 1987- | Date stopped /00/00 | Frequency of generation ACCIDENTAL

4. Mark all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f)

| CODES | A | EPA waste codes | SIC |
|---|---|---|---|
| | | D001 | |

5. Physical form GAS

| % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|
| .0 | | .000 | .0 | .0 |

6. Generation rates in kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days stored |
|---|---|---|---|
| | | | 365 |

7. DOT shipping name | DOT hazard class | DOT ID code

8. Describe generation process.
WASTE GENERATED DUE TO DAMAGED CYLINDER. WASTE IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d( )
e. Improved operations. . . . e( )
f. No effort. . . . . f(X)
g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (kg)

Hazardous Waste Stream Report - Back JAN 06, 198

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

Waste name.
PROPANE | Waste stream ID 95

12. Chemical Characteristics.
pH | Flash point | Reactive code | Concentration units. For EP toxic wastes, indicate PPM.

Major and hazardous consituents.
A PROPANE | lower 100% | upper

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE | (Generator or authorized representative), title and date.

low is for department use only.

| 17. Date rcvd | Complete? Yes | No | Test results? Yes | No | Reasonable? Yes | No | Follow-up Yes | No | Initials |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

Status | Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 198

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

2. Waste name.
DEUTERIUM | Waste stream ID 96

3. Give years waste generated | Date stopped | Frequency of generation
1987- /00/00 ACCIDENTAL

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| A | D001 | 2819

5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb.
GAS | .0 | | .000 | .0 | .0

6. Generation rates in kilograms.
Monthly maximum | Annual average | Max. amount stored | Max. days stored

7. DOT shipping name | DOT hazard class | DOT ID code

8. Describe generation process.
WASTE IS GENERATED DUE TO DAMAGED CYLINDER. WASTE IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (Kg) | Amount on site on first day (Kg) | Amount on site on last day (Kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d( )
e. Improved operations. . . . e( )
f. No effort. . . . . f(X)

g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (Kg)

Hazardous Waste Stream Report - Back JAN 06, 19

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

Waste name.
DEUTERIUM | Waste stream I: 96

12. Chemical Characteristics.
pH | Flash point | Reactive code | Concentration units. For EP toxic wastes, indicate PPM.

Major and hazardous consituents.

| | lower | upper |
|---|---|---|
| A DEUTERIUM | 100% | |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========

Below is for department use only.

| 17. Date rcvd | Complete? Yes | No | Test results? Yes | No | Reasonable? Yes | No | Follow-up Yes | No | Initials |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 19.

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

2. Waste name.
PROPYLENE | Waste stream I: 97

3. Give years waste generated | Date stopped | Frequency of generation
1987- /00/00 ACCIDENTAL

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| A | D001 | 2819

| 5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| GAS | .0 | | .000 | .0 | .0 |

6. Generation rates in kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days stored |
|---|---|---|---|

7. DOT shipping name | DOT hazard class | DOT ID code

8. Describe generation process.
WASTE GENERATED DUE TO DAMAGED CYLINDER. WASTE IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.

** ANNUAL REPORT SECTION ** LINES 9-11

| 9. Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(X)
g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (kg)

Hazardous Waste Stream Report - Back JAN 06, 19

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

Waste name.
PROPYLENE | Waste stream I. 97

12. Chemical Characteristics.
pH | Flash point | Reactive code | Concentration units. For EP toxic wastes, indicate PPM.

Major and hazardous consituents.
A PROPYLENE | lower 100% | upper

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========

Below is for department use only.

17. Date rcvd | Complete? Yes No | Test results? Yes No | Reasonable? Yes No | Follow-up Yes No | Initials

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

Status 6 Report Y

18. Comments.

Hazardous Waste Stream Report - Front JAN 06,

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID COD
TN0 89-009-00

2. Waste name.
ACETONITRILE | Waste stream
98

3. Give years waste generated | Date stopped | Frequency of generation
1987- /00/00 VARIOUS

4. Mark all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f)

| CODES | F | EPA waste codes | SIC |
|---|---|---|---|
| | | U003 | 2819 |

5.

| Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| LIQUID, OTHER BASED | .0 | | 6.530 | .0 | |

6. Generation rates in kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days sto: |
|---|---|---|---|
| 4 | 4 | 4 | 500 |

7.

| DOT shipping name | DOT hazard class | DOT ID co |
|---|---|---|
| WASTE ACETONITRILE | FLAMMABLE LIQUID | NA1648 |

8. Describe generation process.
MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (Kg) | Amount on site on first day (Kg) | Amount on site on last day (Kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d
e. Improved operations. . . . e
f. No effort. . . . . f

g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (kg

Hazardous Waste Stream Report - Back JAN 06, 19

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

Waste name.
ACETONITRILE | Waste stream I 98

12. Chemical Characteristics.
pH | Flash point | Reactive code | Concentration units. For EP toxic wastes, indicate PPM.

Major and hazardous consituents.
A ACETONITRILE | lower 100% | upper

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========

elow is for department use only.

| 17. Date rcvd | Complete? Yes | No | Test results? Yes | No | Reasonable? Yes | No | Follow-up Yes | No | Initials |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06,

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID COD
TN0 89-009-00

2. Waste name.
ARSENIC | Waste stream
99

3. Give years waste generated | Date stopped | Frequency of generation
1987- /00/00 VARIOUS

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| B | D004 | 2819

5.

| Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| OTHER SOLID | .0 | | .000 | .0 | .0 |

6. Generation rates in kilograms.
Monthly maximum | Annual average | Max. amount stored | Max. days stor
500

7. DOT shipping name
WASTE ARSENIC, SOLID | DOT hazard class | DOT ID cod
POISON B UN1558

8. Describe generation process.
MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(
g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (kg)

Hazardous Waste Stream Report - Back JAN 06, 19

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

Waste name.
ARSENIC | Waste stream I: 99

12. Chemical Characteristics.
pH | Flash point | Reactive code | Concentration units. For EP toxic wastes, indicate PPM.

Major and hazardous consituents.
A ARSENIC | lower 100% | upper

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

Below is for department use only.

| 17. Date rcvd | Complete? Yes | No | Test results? Yes | No | Reasonable? Yes | No | Follow-up Yes | No | Initials |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 19

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

2. Waste name.
ARSENIC TRIOXIDE | Waste stream I 100

3. Give years waste generated | Date stopped | Frequency of generation
1987- /00/00 VARIOUS

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| F | P012 | 2819

5.

| Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| OTHER SOLID | .0 | | .000 | .0 | .0 |

6. Generation rates in kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days stored |
|---|---|---|---|
| 1 | 1 | 1 | 500 |

7.

| DOT shipping name | DOT hazard class | DOT ID code |
|---|---|---|
| WASTE ARSENIC TRIOXIDE, SOLID | POISON B | UN1561 |

8. Describe generation process.
MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (Kg) | Amount on site on first day (Kg) | Amount on site on last day (Kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(X

g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (kg)

Hazardous Waste Stream Report - Back JAN 06, 19

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

Waste name.
ARSENIC TRIOXIDE | Waste stream I 100

12. Chemical Characteristics. | Concentration units. For EP toxic wastes, indicate PPM.
pH | Flash point | Reactive code |

Major and hazardous consituents.
A ARSENIC TRIOXIDE | lower | upper 100 % |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE | (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========
Below is for department use only.

| 17. Date rcvd | Complete? Yes | No | Test results? Yes | No | Reasonable? Yes | No | Follow-up Yes | No | Initials |
|---|---|---|---|---|---|---|---|---|---|

Status | Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 19

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

2. Waste name.
BENZIDINE | Waste stream I 101

3. Give years waste generated | Date stopped | Frequency of generation
1987- /00/00 VARIOUS

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| F |U021 | 2819

| 5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| OTHER SOLID | .0 | | .000 | .0 | .0 |

6. Generation rates in Kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days stored |
|---|---|---|---|
| 1 | 1 | 1 | 500 |

7. DOT shipping name | DOT hazard class | DOT ID code
WASTE BENZIDINE, SOLID POISON B UN1885

8. Describe generation process.
MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.

** ANNUAL REPORT SECTION ** LINES 9-11

| 9. Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(X

g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (kg)

Hazardous Waste Stream Report - Back JAN 06, 19

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

Waste name.
BENZIDINE | Waste stream I: 101

12. Chemical Characteristics. | Concentration units. For EP toxic wastes, indicate PPM.
PH | Flash point | Reactive code |

Major and hazardous consituents.
A BENZIDINE | lower | upper 100 % |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========

elow is for department use only.

17. Date rcvd | Complete? Yes No | Test results? Yes No | Reasonable? Yes No | Follow-up Yes No | Initials

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

Status 6 Report Y

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 19

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

2. Waste name.
CARBON DISULFIDE | Waste stream II 102

3. Give years waste generated 1987- | Date stopped /00/00 | Frequency of generation VARIOUS

4. Mark all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f)

| CODES | EPA waste codes | SIC |
|---|---|---|
| F | P022 | 2819 |

5.

| Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| LIQUID, OTHER BASED | .0 | | .000 | .0 | .0 |

6. Generation rates in Kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days stored |
|---|---|---|---|
| 1 | 1 | 1 | 500 |

7.

| DOT shipping name | DOT hazard class | DOT ID code |
|---|---|---|
| WASTE CARBON DISULFIDE | FLAMMABLE LIQUID | UN1131 |

8. Describe generation process.
MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (Kg) | Amount on site on first day (Kg) | Amount on site on last day (Kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(X)
g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (Kg)

Hazardous Waste Stream Report - Back JAN 06, 19

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

Waste name.
CARBON DISULFIDE | Waste stream I 102

12. Chemical Characteristics.
pH | Flash point | Reactive code | Concentration units. For EP toxic wastes, indicate PPM.

Major and hazardous consituents.
A CARBON DISULFIDE | lower | upper 100 % |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========
Below is for department use only.

| 17. Date rcvd | Complete? Yes | No | Test results? Yes | No | Reasonable? Yes | No | Follow-up Yes | No | Initials |
|---|---|---|---|---|---|---|---|---|---|

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 19

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

2. Waste name.
CYCLOHEXANE | Waste stream I 103

3. Give years waste generated | Date stopped | Frequency of generation
1987- /00/00 VARIOUS

4. Mark all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f)

| CODES | F | EPA waste codes | SIC |
|---|---|---|---|
| | | U056 | 2819 |

5.

| Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| LIQUID, OTHER BASED | .0 | | 6.500 | .0 | .0 |

6. Generation rates in kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days store |
|---|---|---|---|
| 2 | 2 | 2 | 500 |

7.

| DOT shipping name | DOT hazard class | DOT ID code |
|---|---|---|
| WASTE CYCLOHEXANE | FLAMMABLE LIQUID | UN1145 |

8. Describe generation process.
MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (Kg) | Amount on site on first day (Kg) | Amount on site on last day (Kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(

g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (Kg)

Hazardous Waste Stream Report - Back JAN 06, 19:

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

Waste name.
CYCLOHEXANE | Waste stream I: 103

12. Chemical Characteristics.
pH | Flash point | Reactive code | Concentration units. For EP toxic wastes, indicate PPM.

Major and hazardous consituents.
A CYCLOHEXANE | lower | upper 100 % |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

Below is for department use only.

| 17. Date rcvd | Complete? Yes | No | Test results? Yes | No | Reasonable? Yes | No | Follow-up Yes | No | Initials |
|---|---|---|---|---|---|---|---|---|---|

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 19

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

2. Waste name.
DIBUTYL PHTHALATE | Waste stream I 104

3. Give years waste generated 1987- | Date stopped /00/00 | Frequency of generation VARIOUS

4. Mark all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f)

| CODES | EPA waste codes | SIC |
|---|---|---|
| F | U069 | 2819 |

5.

| Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| LIQUID, OTHER BASED | .0 | | 8.760 | .0 | .0 |

6. Generation rates in kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days stored |
|---|---|---|---|
| 2 | 2 | 2 | 500 |

7.

| DOT shipping name | DOT hazard class | DOT ID code |
|---|---|---|
| WASTE DIBUTYL PHTHALATE | POISON B | UN2810 |

8. Describe generation process.
MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(X

g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (kg)

Hazardous Waste Stream Report - Back JAN 06, 198

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

Waste name.
DIBUTYL PHTHALATE | Waste stream II 104

12. Chemical Characteristics. | Concentration units. For EP toxic wastes, indicate PPM.
pH | Flash point | Reactive code |

Major and hazardous consituents.

| lower | upper
A DIBUTYL PHTHALATE 100 % |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========

Below is for department use only.

| 17. Date rcvd | Complete? Yes | No | Test results? Yes | No | Reasonable? Yes | No | Follow-up Yes | No | Initials |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 19

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

2. Waste name.
DICHLOROBENZENE | Waste stream I 105

3. Give years waste generated | Date stopped | Frequency of generation
1987- /00/00 VARIOUS

4. Mark all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f)

| CODES | EPA waste codes | SIC |
|---|---|---|
| F | U070 | 2819 |

5.

| Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| LIQUID, OTHER BASED | .0 | | 12.510 | .0 | .0 |

6. Generation rates in kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days store |
|---|---|---|---|
| | | | 500 |

7.

| DOT shipping name | DOT hazard class | DOT ID code |
|---|---|---|
| WASTE DICHLOROBENZENE, LIQUID | O R M - E | UN1591 |

8. Describe generation process.
MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(X

g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (kg)

Hazardous Waste Stream Report - Back JAN 06, 19

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

Waste name.
DICHLOROBENZENE | Waste stream II 105

12. Chemical Characteristics. | Concentration units. For EP toxic wastes, indicate PPM.
pH | Flash point | Reactive code |

Major and hazardous consituents.
A DICHLOROBENZENE | lower | upper 100 % |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

elow is for department use only.

| 17. Date rcvd | Complete? Yes | No | Test results? Yes | No | Reasonable? Yes | No | Follow-up Yes | No | Initials |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 1

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-000

2. Waste name.
2,4-DINITROPHENOL | Waste stream 106

3. Give years waste generated 1987- | Date stopped /00/00 | Frequency of generation VARIOUS

4. Mark all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f)

| CODES | EPA waste codes | SIC |
|---|---|---|
| F | P048 | 2819 |

5.

| Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| OTHER SOLID | .0 | | .000 | .0 | .0 |

6. Generation rates in kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days store |
|---|---|---|---|
| | | | 500 |

7. DOT shipping name
WASTE DINITROPHENOL, SOLID | DOT hazard class FLAMMABLE SOLID | DOT ID code

8. Describe generation process.
MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(

g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (kg)

Hazardous Waste Stream Report - Back JAN 06, 19

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

Waste name.
2,4-DINITROPHENOL | Waste stream I 106

12. Chemical Characteristics.
pH | Flash point | Reactive code | Concentration units. For EP toxic wastes, indicate PPM.

Major and hazardous consituents.
A 2,4 DINITROPHENOL | lower | upper 100 % |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE | (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========

Below is for department use only.

| 17. Date rcvd | Complete? Yes | No | Test results? Yes | No | Reasonable? Yes | No | Follow-up Yes | No | Initials |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

Status | Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 19.

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

2. Waste name.
DIOCTYL PHTHALATE | Waste stream I: 107

3. Give years waste generated 1987- | Date stopped /00/00 | Frequency of generation VARIOUS

4. Mark all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f)
CODES| F | EPA waste codes |U107 | SIC | 2819

5.

| Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| LIQUID, OTHER BASED | .0 | | 8.090 | .0 | .0 |

6. Generation rates in Kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days stored |
|---|---|---|---|
| 2 | 2 | 2 | 500 |

7.

| DOT shipping name | DOT hazard class | DOT ID code |
|---|---|---|
| WASTE DIOCTYL PHTHALATE | POISON B | UN2810 |

8. Describe generation process.
MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(X

g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (kg)

Hazardous Waste Stream Repor - Back JAN 06, 19

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-0004

Waste name.
DIOCTYL PHTHALATE | Waste stream I 107

12. Chemical Characteristics. | Concentration units. For EP toxic wastes, indicate PPM.
pH | Flash point | Reactive code |

Major and hazardous consituents.
A DIOCTYL PHTHALATE | lower 100 % | upper |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

Below is for department use only.

| 17. Date rcvd | Complete? Yes | No | Test results? Yes | No | Reasonable? Yes | No | Follow-up Yes | No | Initials |
|---|---|---|---|---|---|---|---|---|---|

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 1

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-000

2. Waste name.
ETHYL ACETATE | Waste stream 108

3. Give years waste generated | Date stopped | Frequency of generation
1987- /00/00 VARIOUS

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| F |U112 | 2819

5. Physical form |% Solid|% Water|Lb./gal. | Chlorine PPM | BTU/lb.
LIQUID, OTHER BASED | .0| | 7.420 | .0 | .0

6. Generation rates in kilograms.
Monthly maximum | Annual average | Max. amount stored | Max. days stor
500

7. DOT shipping name | DOT hazard class | DOT ID cod
WASTE ETHYL ACETATE FLAMMABLE LIQUID UN1173

8. Describe generation process.
MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(

g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (kg)

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-000

Waste name.
ETHYL ACETATE | Waste stream 108

12. Chemical Characteristics.
pH | Flash point | Reactive code | Concentration units. For EP toxic wastes, indicate PPM.

Major and hazardous consituents.
A ETHYL ACETATE | lower | upper 100 %

13. If this waste is recovered, reclaimed, recycled, or reused, describe how

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

Below is for department use only.

| 17. Date rcvd | Complete? Yes | Complete? No | Test results? Yes | Test results? No | Reasonable? Yes | Reasonable? No | Follow-up Yes | Follow-up No | Initials |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Repor |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 1

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-000

2. Waste name.
FORMIC ACID | Waste stream 109

3. Give years waste generated 1987- | Date stopped /00/00 | Frequency of generation VARIOUS

4. Mark all appropriate hazard criteria below. Ignitable (a), EP toxic (b), Corrosive (c), Reactive (e), Other toxic (f)

| CODES | EPA waste codes | SIC |
|---|---|---|
| F | U123 | 2819 |

5.

| Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| LIQUID, WATER BASED | .0 | | 10.200 | .0 | .0 |

6. Generation rates in Kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days store |
|---|---|---|---|
| 25 | 25 | 25 | 500 |

7.

| DOT shipping name | DOT hazard class | DOT ID code |
|---|---|---|
| WASTE FORMIC ACID, LIQUID | CORROSIVE | UN1779 |

8. Describe generation process.
MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (Kg) | Amount on site on first day (Kg) | Amount on site on last day (Kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(

g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (Kg)

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-000

Waste name.
FORMIC ACID | Waste stream 109

12. Chemical Characteristics. | Concentration units. For EP toxic wastes, indicate PPM.
pH | Flash point | Reactive code |

Major and hazardous consituents.
A FORMIC ACID | lower | upper 100 %

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

Below is for department use only.

| 17. Date rcvd | Complete? Yes | No | Test results? Yes | No | Reasonable? Yes | No | Follow-up Yes | No | Initials |
|---|---|---|---|---|---|---|---|---|---|

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| 6 | Y |

18. Comments.

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-000

2. Waste name.
HEXACHLOROBENZENE | Waste stream 110

3. Give years waste generated | Date stopped | Frequency of generation
1987- /00/00 VARIOUS

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| F | U127 | 2819

| 5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| OTHER SOLID | .0 | | .000 | .0 | .0 |

6. Generation rates in Kilograms.

| Monthly maximum | Annual average | Max. amount stored | Max. days store |
|---|---|---|---|
| 1 | 1 | | 500 |

7. DOT shipping name | DOT hazard class | DOT ID code
HAZARDOUS WASTE, SOLID | O R M - E | NA9189

8. Describe generation process.
MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (Kg) | Amount on site on first day (Kg) | Amount on site on last day (Kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(

g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (Kg)

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-000

Waste name.
HEXACHLOROBENZENE | Waste stream 110

12. Chemical Characteristics. | Concentration units. For EP toxic wastes, indicate PPM.
pH | Flash point | Reactive code |

Major and hazardous consituents.
A HEXACHLOROBENZENE | lower | upper 100 %

13. If this waste is recovered, reclaimed, recycled, or reused, describe how

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

Below is for department use only.

| 17. Date rcvd | Complete? Yes | Complete? No | Test results? Yes | Test results? No | Reasonable? Yes | Reasonable? No | Follow-up Yes | Follow-up No | Initials |
|---|---|---|---|---|---|---|---|---|---|

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Repor |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 1

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-000

2. Waste name.
NAPHTHALENE | Waste stream 111

3. Give years waste generated | Date stopped | Frequency of generation
1987- /00/00 VARIOUS

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| F | U165 | 2819

| 5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| OTHER SOLID | .0 | | .000 | .0 | .0 |

6. Generation rates in kilograms.
Monthly maximum | Annual average | Max. amount stored | Max. days stor
500

7. DOT shipping name | DOT hazard class | DOT ID cod
WASTE NAPHTALENE | O R M - E | UN1334

8. Describe generation process.
MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.

** ANNUAL REPORT SECTION ** LINES 9-11

| 9. Report Year | Amount generated during year (Kg) | Amount on site on first day (Kg) | Amount on site on last day (Kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(

g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (Kg)

Hazardous Waste Stream Report - Back JAN 06, 1

See full instructions for form PH-2022 for additional information and codes.

| Organization's name. | EPA ID CODE |
|---|---|
| UNITED STATES DEPT OF ENERGY K-25 SITE | TN0 89-009-000 |

| Waste name. | Waste stream |
|---|---|
| NAPHTHALENE | 111 |

12. Chemical Characteristics.

| pH | Flash point | Reactive code |
|---|---|---|
| | | |

Concentration units. For EP toxic wastes, indicate PPM.

| Major and hazardous consituents. | lower | upper |
|---|---|---|
| A NAPHTHALENE | 100 % | |

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE (Generator or authorized representative), title and date.

Below is for department use only.

| 17. Date rcvd | Complete? Yes | Complete? No | Test results? Yes | Test results? No | Reasonable? Yes | Reasonable? No | Follow-up Yes | Follow-up No | Initials |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

| Status | Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5); Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R). | Status | Report |
|---|---|---|---|
| | | 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 1

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-000

2. Waste name.
NITROBENZENE | Waste stream 112

3. Give years waste generated | Date stopped | Frequency of generation
1987- /00/00 VARIOUS

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| F |U169 | 2819

5. Physical form |% Solid|% Water|Lb./gal. | Chlorine PPM | BTU/lb.
LIQUID, OTHER BASED | .0| | 10.000 | .0 | .0

6. Generation rates in Kilograms.
Monthly maximum | Annual average | Max. amount stored | Max. days stor.
1 1 1 500

7. DOT shipping name | DOT hazard class | DOT ID cod
WASTE NITROBENZENE, LIQUID POISON B UN2810

8. Describe generation process.
MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d
e. Improved operations. . . . e
f. No effort. . . . . f

g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (kg.

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-000

Waste name.
NITROBENZENE | Waste stream 112

12. Chemical Characteristics. | Concentration units. For EP toxic wastes, indicate PPM.
pH | Flash point | Reactive code |

Major and hazardous consituents.
A NITROBENZENE | lower | upper 100 %

13. If this waste is recovered, reclaimed, recycled, or reused, describe how

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========
Below is for department use only.

| 17. Date rcvd | Complete? Yes | No | Test results? Yes | No | Reasonable? Yes | No | Follow-up Yes | No | Initials |
|---|---|---|---|---|---|---|---|---|---|

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Repor |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06,

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID COD
TN0 89-009-00

2. Waste name.
NITROPHENOL | Waste stream
113

3. Give years waste generated | Date stopped | Frequency of generation
1987- /00/00 VARIOUS

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| F | U170 | 2819

5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb.
OTHER SOLID | .0 | | .000 | .0 |

6. Generation rates in kilograms.
Monthly maximum | Annual average | Max. amount stored | Max. days sto:
500

7. DOT shipping name | DOT hazard class | DOT ID co
HAZARDOUS WASTE, SOLID N.O.S. O R M - E | NA9189

8. Describe generation process.
MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.

** ANNUAL REPORT SECTION ** LINES 9-11

9. Report Year 1988 | Amount generated during year (Kg) | Amount on site on first day (Kg) | Amount on site on last day (Kg)
O O O

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods
|---|---|---|---|
| A | O | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d
e. Improved operations. . . . e
f. No effort. . . . . f

g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (kg

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-000

Waste name.
NITROPHENOL | Waste stream 113

12. Chemical Characteristics. | Concentration units. For EP toxic wastes, indicate PPM.
pH | Flash point | Reactive code |

Major and hazardous consituents. | lower | upper
A NITROPHENOL 100 %

13. If this waste is recovered, reclaimed, recycled, or reused, describe how.

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========
Below is for department use only.

| 17. Date rcvd | Complete? Yes | No | Test results? Yes | No | Reasonable? Yes | No | Follow-up Yes | No | Initials |
|---|---|---|---|---|---|---|---|---|---|

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Report |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06,

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID COD
TN0 89-009-00

2. Waste name.
PARALDEHYDE | Waste stream
114

3. Give years waste generated | Date stopped | Frequency of generation
1987- /00/00 VARIOUS

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| F |U128 | 2819

5. Physical form |% Solid|% Water|Lb./gal. | Chlorine PPM | BTU/lb.
LIQUID, OTHER BASED | .0| | 8.310 | .0 |

6. Generation rates in kilograms.
Monthly maximum | Annual average | Max. amount stored | Max. days sto:
500

7. DOT shipping name | DOT hazard class | DOT ID co
WASTE PARALDEHYDE FLAMMABLE LIQUID UN1264

8. Describe generation process.
MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d
e. Improved operations. . . . e
f. No effort. . . . . f

g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (Kg

See full instructions for form PH-2022 for additional information and codes.

Organization's name. | EPA ID CODE
UNITED STATES DEPT OF ENERGY K-25 SITE | TN0 89-009-000

Waste name. | Waste stream
PARALDEHYDE | 114

12. Chemical Characteristics. | Concentration units. For EP toxic wastes, indicate PPM.
pH | Flash point | Reactive code |

Major and hazardous consituents. | lower | upper
A PARALDEHYDE | 100 %

13. If this waste is recovered, reclaimed, recycled, or reused, describe how

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

Below is for department use only.

| 17. Date rcvd | Complete? Yes | Complete? No | Test results? Yes | Test results? No | Reasonable? Yes | Reasonable? No | Follow-up Yes | Follow-up No | Initials |
|---|---|---|---|---|---|---|---|---|---|

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Repor |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06,

See full instructions for form PH-2022 for additional information and codes

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CO
TN0 89-009-0

2. Waste name.
PYRIDINE | Waste strea
115

3. Give years waste generated | Date stopped | Frequency of generatio
1987- /00/00 VARIOUS

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| F
|U196 | 2819

5. Physical form |% Solid|% Water|Lb./gal. | Chlorine PPM | BTU/lb.
LIQUID, OTHER BASED | .0| | 8.230 | .0 |

6. Generation rates in kilograms.
Monthly maximum | Annual average | Max. amount stored | Max. days stc
5 5 5 500

7. DOT shipping name | DOT hazard class | DOT ID cc
WASTE PYRIDINE FLAMMABLE LIQUID UN1282

8. Describe generation process.
MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d
e. Improved operations. . . . e
f. No effort. . . . . f
g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (kg.

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TH0 89-009-000

Waste name.
PYRIDINE | Waste stream 115

12. Chemical Characteristics.
pH | Flash point | Reactive code | Concentration units. For EP toxic wastes, indicate PPM.

Major and hazardous consituents.
A PYRIDINE | lower | upper 100 %

13. If this waste is recovered, reclaimed, recycled, or reused, describe how

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

Below is for department use only.

| 17. Date rcvd | Complete? Yes | No | Test results? Yes | No | Reasonable? Yes | No | Follow-up Yes | No | Initials |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

Status| Not hazardous (1); Demonstrated not hazardous (2); Small generator (3); Resource recovery (4); Partial exemption (5);Hazardous (6); Accidental (7); No longer generated (8); Variance granted (9); Conditionally exempt (A); Mixed radiological wastse (R).

| Status | Repor |
|---|---|
| 6 | Y |

18. Comments.

Hazardous Waste Stream Report - Front JAN 06,

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-00C

2. Waste name.
SELENIUM DIOXIDE | Waste stream 116

3. Give years waste generated | Date stopped | Frequency of generation
1987- /00/00 VARIOUS

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| F | U204 | 2819

| 5. Physical form | % Solid | % Water | Lb./gal. | Chlorine PPM | BTU/lb. |
|---|---|---|---|---|---|
| OTHER SOLID | .0 | | .000 | .0 | .0 |

6. Generation rates in kilograms.
Monthly maximum | Annual average | Max. amount stored | Max. days stor
500

7. DOT shipping name | DOT hazard class | DOT ID cod
WASTE SELENIUM DIOXIDE | POISON B | UN2811

8. Describe generation process.
MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.

** ANNUAL REPORT SECTION ** LINES 9-11

| 9. Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(
g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (kg)

Hazardous Waste Stream Report - Back JAN 06,

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID COD.
TN0 89-009-00

Waste name.
SELENIUM DIOXIDE | Waste stream
116

12. Chemical Characteristics. | Concentration units. For EP toxic
pH | Flash point| Reactive code | wastes, indicate PPM.

Major and hazardous consituents.
A SELENIUM DIOXIDE | lower | upper
100 %

13. If this waste is recovered, reclaimed, recycled, or reused, describe hov

16. I certify that this information is true, accurate and complete.
SIGNATURE| (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========
Below is for department use only.

| 17. Date rcvd | Complete? Yes | No | Test results? Yes | No | Reasonable? Yes | No | Follow-up Yes | No | Initials |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

Status| Not hazardous (1); Demonstrated not hazardous (2); Status Repor
Small generator (3); Resource recovery (4); 6 Y
Partial exemption (5);Hazardous (6);
Accidental (7); No longer generated (8); Variance granted (9); Condi-
tionally exempt (A); Mixed radiological wastse (R).

18. Comments.

Hazardous Waste Stream Report - Front JAN 06, 1

See full instructions for form PH-2022 for additional information and codes.

1. Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID CODE TN0 89-009-000

2. Waste name.
TETRAHYDROFURAN | Waste stream 117

3. Give years waste generated | Date stopped | Frequency of generation
1987- /00/00 VARIOUS

4. Mark all appropriate hazard criteria below. | EPA waste codes | SIC
Ignitable (a), EP toxic (b), Corrosive (c),
Reactive (e), Other toxic (f)
CODES| F |U213 | 2819

5. Physical form |% Solid|% Water|Lb./gal. | Chlorine PPM | BTU/lb.
LIQUID, OTHER BASED | .0| | 7.410 | .0 | .0

6. Generation rates in kilograms.
Monthly maximum | Annual average | Max. amount stored | Max. days stor
500

7. DOT shipping name | DOT hazard class | DOT ID cod
WASTE TETRAHYDROFURAN FLAMMABLE LIQUID UN2056

8. Describe generation process.
MATERIAL DISCOVERED DURING CLEANUP OF LABORATORY AREA. MATERIAL IS NOT NORMALLY GENERATED OR STORED AT K-25 SITE.

** ANNUAL REPORT SECTION ** LINES 9-11

9.

| Report Year | Amount generated during year (kg) | Amount on site on first day (kg) | Amount on site on last day (kg) |
|---|---|---|---|
| 1988 | 0 | 0 | 0 |

| | Amount Handled | Handled On site? | TSDF handling/Waste management methods |
|---|---|---|---|
| A | 0 | Y N | |
| B | | Y N | |
| C | | Y N | |
| D | | Y N | |

10. Check the efforts undertaken to reduce the volume and toxicity in the generation of this waste during the reported year.

a. Reformulation/redesign of product a( )
b. In process recycling. . . . . b( )
c. Equipment/technology modification c( )
d. Substituting raw materials d(
e. Improved operations. . . . e(
f. No effort. . . . . f(

g. Other - explain below: . . . . . g( )

11. Describe changes in volume and toxicity that those reduction efforts checked in line 10 produced last year compared to the previous year.

a. more toxic-a( ) b. less toxic-b( ) c. No change-c( ). | Amt of Reduction (kg)

Hazardous Waste Stream Report - Back JAN 06,

See full instructions for form PH-2022 for additional information and codes.

Organization's name.
UNITED STATES DEPT OF ENERGY K-25 SITE | EPA ID COD:
TN0 89-009-00

Waste name.
TETRAHYDROFURAN | Waste stream
117

12. Chemical Characteristics. | Concentration units. For EP toxic
pH | Flash point | Reactive code | wastes, indicate PPM.

Major and hazardous consituents.
A TETRAHYDROFURAN | lower | upper
100 %

13. If this waste is recovered, reclaimed, recycled, or reused, describe ho

16. I certify that this information is true, accurate and complete.
SIGNATURE | (Generator or authorized representative), title and date.

========== ========== ========== ========== ==========
Below is for department use only.

| 17. Date rcvd | Complete? Yes | No | Test results? Yes | No | Reasonable? Yes | No | Follow-up Yes | No | Initials |
|---|---|---|---|---|---|---|---|---|---|

Status | Not hazardous (1); Demonstrated not hazardous (2); Status Repor
Small generator (3); Resource recovery (4); 6 Y
Partial exemption (5); Hazardous (6);
Accidental (7); No longer generated (8); Variance granted (9); Condi
tionally exempt (A); Mixed radiological wastse (R).

18. Comments.